



# **WELCOME TO HELLA**

Over 120 years ago, HELLA began with a vision of automotive innovation and safety, which remains at our core today.

With quality products developed and built using state-of-the-art technology, the road ahead looks bright.

# NEED ASSISTANCE? CONTACT HELLA CUSTOMER SERVICE:

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ORDERS hellaorders@hella.com

ONLINE hella.com.au

- → Expert professional advice from qualified auto-electricians
- ightarrow Information on product availability and new releases
- → Assistance with product selection and installation
- → Online services including automotive catalogue with search functionality, store locator, newsletters and latest technology developments

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## **Australia**

For over a century, HELLA has focused on innovation, quality and optimum performance at a level beyond conventional industry standards. This no compromise approach has established HELLA as a trusted partner for the world's leading vehicle manufacturers and today HELLA is proud to be one of the top forty automotive suppliers in the world.

The Special Original Equipment Division at HELLA Australia is dedicated to developing custom lighting and electronic solutions for the complex requirements of specialist vehicle manufacturers in diverse sectors such as mining, construction, agriculture, emergency services and marine.

Through the Aftermarket Division, HELLA Australia supplies wholesale distributors and retailers with a diverse portfolio of high quality replacement parts for both passenger and commercial vehicles, teaming up with several other European Original Equipment brands, all of which are regarded as among the very best in their fields, in order to offer an even more diverse product range.

The HELLA Field Sales team and Customer Service advisors are the designated first point of contact, and customers can be assured of a prompt, helpful and knowledgeable response.

The Technical Specialists, Product Managers and Marketing team liaise directly with customers providing training, technical sales support and business development initiatives, which include bespoke lighting designs, marketing tools and promotions.



#### PREMIUM QUALITY PARTS FROM LEADING EUROPEAN ORIGINAL EQUIPMENT BRANDS













HELLA is an Original
Equipment supplier
to over 165 of the
world's leading vehicle
manufacturers
including...



Aston Martin, Audi, BMW, Mercedes-Benz and Porsche



Case New Holland, Caterpillar, John Deere, Komatsu and Manitou



DAF, Daimler, Kenworth, MAN, Scania, Volvo



BCI, Iveco, MAN, Marcopolo, Mercedes-Benz, Scania, Volvo



Barker, Byford, Krone, Vawdrey, Wielton



Austal, Bavaria, Beneteau, Maritimo, Riviera

### **ICONS EXPLAINED**

A variety of symbols are used to ensure a quick reference to many important product features throughout the catalogue.



#### **DuraLED® LIFETIME WARRANTY**

Refer to the website for further details.





#### **GRILAMID® LENS MATERIAL**

High performance clear polyamide for extreme impact, UV, chemical and stress resistance.



#### **5 YEAR WARRANTY ON LED**

Refer to the website for further details.



#### RFCommSafe™

Electromagnetic Compatibility (EMC).



#### **FIT & FORGET BY DESIGN**



#### **ULTRAVIOLET RESISTANT**

Utilises advanced impact resistant polymers that will not yellow or deteriorate.



#### **ULTRA LONG LIFE LONGEVITY**



#### **ULTRA WIDE VISIBILITY OPTICS**

Providing increased light intensity that is well above ADR requirements for significantly improved side visibility.



12/24

#### MULTIVOLT™

**DUALVOLT** 

12V or 24V DC

Can be connected to either 12V or 24V DC electrical systems.



#### **CORROSION-PROOF HOUSING**



#### **HEAVY DUTY MOUNT**



#### STAINLESS STEEL BRACKET



GLOBE

#### **GLOBE INCLUDED**



#### **ECE CERTIFIED**

Product is licensed according to ECE guidelines.



12V or 24V GLOBE INCLUDED



#### ADR COMPLIANT

Products displaying this symbol comply with Australian Design Rule, or ADR requirements.

Refer to details on page 418.



#### **ENHANCED DEFINITION TECHNOLOGY**

Utilises Enhanced Definition Technology (EDT) to maximise the visual impact of the signal function.



#### **HELLA COMPATIBILITY SOLUTION (HCS)**

HCS technology for safe and seamless conversion to LED direction indicators.

Refer to details on page 276.

**LED TECHNOLOGY** 



### **RCM COMPLIANT**

**DISPLAY PACK** 

Regulatory Compliance Mark



Combining quality LEDs with advanced optic technology for class-leading efficiency.



#### Supplied in printed packaging suitable for retail display.

HANG-SELL PACKAGING

Supplied in hang-sell blister packaging for retail display on existing merchandising systems.





#### NUMBER OF LED LIGHT SOURCES

Defines the number of LED light sources used by the product.



**RETAIL PACKAGING** 









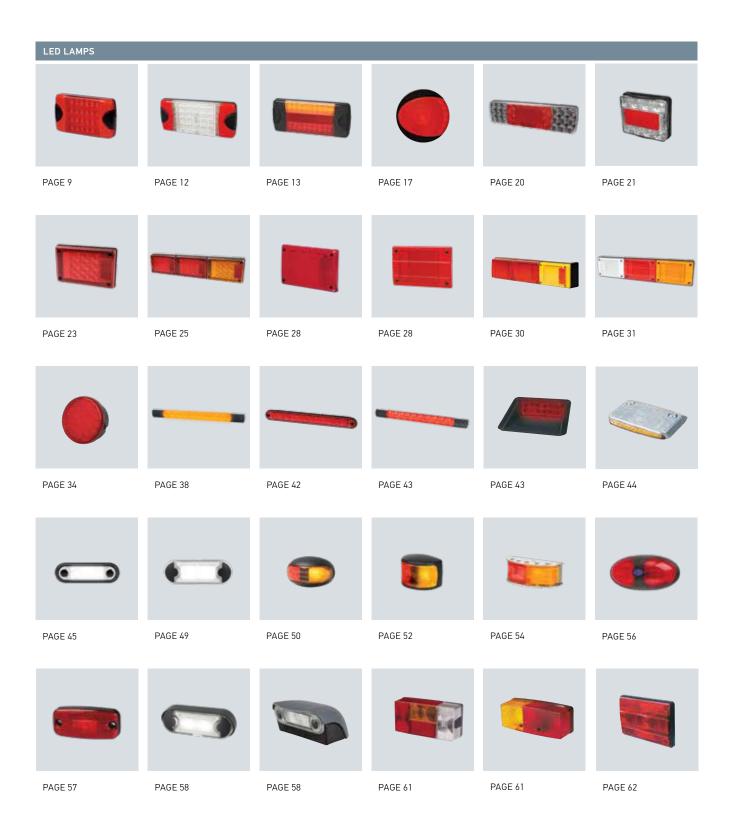
# Contents

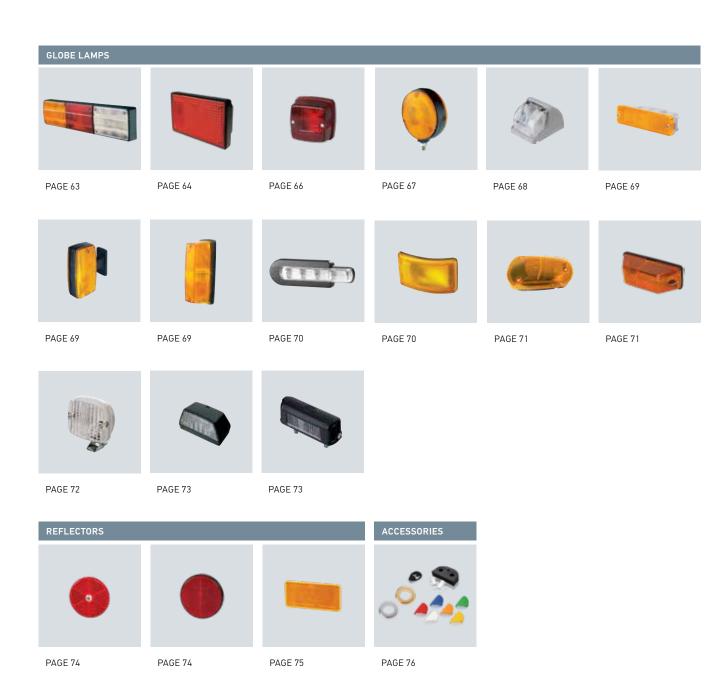
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# QUICK REFERENCE PRODUCT GUIDE

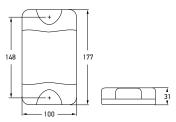




#### **DuraLED® Stop/Rear Position Lamp** with Night Light

DuraLED® stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.













2330-V	2SB 959	2SB 959 060-251				
Mounting		Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.				
Voltage	Multivolt <sup>1</sup>	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts				
Power Consumption	Stop:	6W	Rear position:	2.5W	Night:	2.5W
Protection	IP 6K6 (P	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)				
Cable Length	Pre-wire	Pre-wired with 2.5m of sheathed multi-core cable				
Compliance	ADR 49/0	ADR 49/00				
See page 76 for DuraLED® accessories.						

#### **DuraLED® Rear Direction Indicator Lamp**

DuraLED® rear direction indicator lamp for trucks, buses, caravans and trailers. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.











2151-V	2BA 959 070-251				
2151-VCS	2BA 980 607-501 HCS TECHNOLOGY				
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.				
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts				
Power Consumption	2151-V 6W 2151-VCS 4W				
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)				
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable				
Compliance	ADR 6/00: Cat 2a				
See page 276 for further information on HCS Technology and ISO 13207-1.					

#### **DuraLED® Reversing Lamp**

DuraLED® reversing lamp for trucks, buses, caravans and trailers.







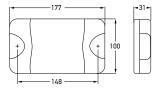
1430-V	2ZR 959 070-551					
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.					
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts				
Power Consumption	4W					
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)					
	3 1 , .					
Cable Length	3 1 , .					
Cable Length Compliance	IP 6K7 (Protection against dust and temporary water immersion)					











2330-Н	2SB 959 0	60-351					
2330-HBL	2SB 959 0	60-352			BLISTER I	PACK	
Mounting		Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.					
Voltage	Multivolt™ f	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts					
Power Consumption	Stop:	6W	Rear position:	2.5W	Night:	2.5W	
Protection	IP 6K6 (Pro	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)					
Cable Length	Pre-wired \	Pre-wired with 2.5m of sheathed multi-core cable					
Compliance	ADR 49/00		£24 5850	ECE R7/02	<u>@</u>	<u> </u>	
See page 76 for DuraLED® accessories.							

#### DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED® stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.













2151-H	2BA 959 070-351				
2151-HBL	2BA 959 070-352	BLISTER PACK			
2151-HCS	2BA 980 607-001	HCS TECHNOLOGY			
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.				
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 3	3 volts			
Power Consumption	2151-H/HBL/HBULK 6W 2151-HCS	5 4W			
Protection	As per Part No. 2330-H				
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable				
Compliance	ADR 6/00: Cat 2a				
See page 276 for further	r information on HCS Technology and ISO 13207-1.				

# DuraLED® Rear Direction Indicator Lamp

DuraLED® rear direction indicator lamp for trucks, buses, caravans and trailers. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.





2151-HBL





1430-Н	2ZR 959 070-501			
1430-HBL	2ZR 959 070-502			BLISTER PACK
Mounting	Two hole surface mo Suitable for horizont	ount with mounting bu al mounting.	shes supplied.	
Voltage	Multivolt™ for optimu	ım brightness at input	voltages from 9 to 33	3 volts
Power Consumption	4W			
Protection	As per Part No. 2330	)-H		
Cable Length	Pre-wired with 2.5m	of sheathed multi-cor	re cable	
Compliance	ADR 1/00	£24 5850	ECE R23/00	<b>&amp;</b>
Reversing lamps are no	t designed for continuo	us operation		

#### DuraLED® Reversing Lamp

DuraLED® reversing lamp for trucks, buses, caravans and trailers.



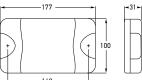


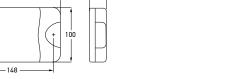
#### DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED® stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle.









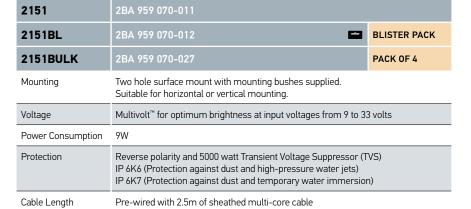
2330	2SB 959 060-001	
2330BL	2SB 959 060-002	BLISTER PACK
2330BULK	2TA 959 060-011	PACK OF 4
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts
Power Consumption	Stop: 6W Rear position: 1W Night: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (T IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 49/00 💩	
See page 76 for DuraLE	D® accessories.	

#### **DuraLED® Rear Direction Indicator Lamp**

DuraLED® rear direction indicator lamp for trucks, buses, caravans and trailers.











Compliance

ADR 6/00: Cat 2a

MARKER & SIGNAL







## Upgrade to the Latest Technology

HELLA introduces the latest upgrade to the iconic DuraLED® Combi with a new slim design, featuring a depth of just 25mm. Combining all the features transport professionals depend upon; world-class materials, unsurpassed design, exceptional performance, and after sales service second to none, the new DuraLED® Combi will be the next staple in road transport lighting arsenals.

Part Numbers	Slim	Power Supply MULTI VOLT	((上))	Cable Length (mtrs)	Built-in DT Connector	CMD	HCS HELLA Compatibility Solution	Additional Functions	Application
2377	✓	12/24V	✓	2.5	-	✓	_	Retro Reflector	Truck/Trailer
2378	<b>✓</b>	12/24V	✓	2.5	_	✓	_	_	Heavy Duty Commercial High Impact Protection
2378-BL	<b>√</b>	12/24V	<b>√</b>	2.5	_	<b>√</b>	_	_	Heavy Duty Commercial High Impact Protection
2378-CS	<b>√</b>	12/24V	<b>√</b>	2.5	_	<b>√</b>	<b>√</b> 24V	_	Heavy Duty Commercial High Impact Protection
2378-DT	<b>√</b>	12/24V	<b>√</b>	_	<b>√</b>	<b>√</b>	_	Night	Heavy Duty Commercial High Impact Protection
2378-DTCS	<b>√</b>	12/24V	<b>√</b>	_	<b>√</b>	<b>√</b>	<b>√</b> 24V	Night	Heavy Duty Commercial High Impact Protection
2VP 015 074-001	<b>√</b>	12/24V	_	2.5	_	<b>√</b>	_	Retro Reflector	Heavy Duty Commercial High Impact Protection
2VP 015 074-101	<b>√</b>	12/24V	_	2.5	_	<b>√</b>	<b>√</b> 12/24V	Retro Reflector	Heavy Duty Commercial High Impact Protection
2VP 015 075-001	<b>√</b>	12/24V	_	_	✓	<b>√</b>	_	Retro Reflector	Heavy Duty Commercial High Impact Protection
2VP 015 075-101	<b>√</b>	12/24V	_	_	✓	✓	<b>√</b> 12/24V	Retro Reflector	Heavy Duty Commercial High Impact Protection

2377

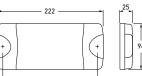
#### DuraLED® Combi-S Stop/Rear Position/Rear Direction Indicator Lamp - Heavy Duty

DuraLED® combination lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Suitable for commercial vehicles and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.























ADR

2378	2SD 980 613-001	
2378BL	2SD 980 613-002	BLISTER PACK
2378BULK	2SD 980 613-007	PACK OF 12
2378-CS	2SD 980 613-201	HCS TECHNOLOGY (24V ONLY)
2378-6M	2SD 980 613-031	6M CABLE
2378-6MBULK	2SD 980 613-037	PACK OF 12
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt <sup>™</sup> for optimum brightness in 12 and 24 volt systems	
Power Consumption	Stop: 5W	
	Rear position: 1W Rear direction indicator: 5W	
Protection		)
Protection  Cable Length	Rear direction indicator: 5W  Reverse polarity and 5000 watt Transient Voltage Suppressor (TV IP 6K7 (Protection against dust and temporary water immersion)	)
	Rear direction indicator: 5W  Reverse polarity and 5000 watt Transient Voltage Suppressor (TV IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cl	)

See page 276 for further information on HCS Technology and ISO 13207-1.

### COMBI-S LAMP FUNCTIONS Stop Rear direction indicator Rear position

#### **DuraLED® Combi-S Trailer** Lighting Kit

A complete Fit and Forget solution for commercial trailers or boat trailers.





1 x 2559-1 1 x 4921



7 pole flat plug





LED licence plate lamp with 5m sheathed multi-core cable



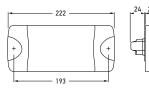












2378DT	2SD 980 602-001			
2378DTCS	2SD 980 602-20			HCS TECHNOLOGY (24V ONLY)
Mounting		Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt <sup>™</sup> for optin	Multivolt™ for optimum brightness in 12 and 24 volt systems		
Power Consumption	Stop: Rear position:	5W 1W	Rear direction indic Night:	ator: 5W 1W
Protection	As per Part No. 23	78.		
Accessory	4963-P 6 pole DT plug, wedge and 6 contacts			
Lens Material	Nylon (PA12)			
Compliance	ADR 6/00: Cat 2a 5883	ADR 49/00 ECE R6/01	ISO 13207-1 (2378-D ECE R7/02	TCS only)

See page 276 for further information on HCS Technology and ISO 13207-1.



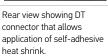
4963-P Not included with lamp.

#### DuraLED® Combi-S Stop/Rear Position/Rear Direction Indicator Lamp with DT Connector and Night Light - Heavy Duty

DuraLED® combination lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle, resulting in low power consumption. Suitable for commercial and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.











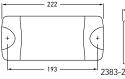














		2383-24VCS	2383-D124VCS
2383-24VCS	2SK 980 613-511 – Incorpo	rates HCS technology	2.5M CABLE
2383-DT24VCS	2SK 980 602-511 – Incorpo	rates HCS technology	DT CONNECTOR
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	24V DC		
Power Consumption	Stop: Rear position: Night (2383-DT24VCS only):	3W Rear direction indicate 1W Reverse: 1W	or: 3W 3W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable (except DT versions)		
Accessory	4963-P 6 pole DT pl	lug, wedge and 6 contacts	
Lens Material	Nylon (PA12)		
Compliance	EZ 5894 ECE R6/01 ECE R10	CE R7/02 ECE R23/00 IS	0 13207-1



#### DuraLED® Combi-S Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp with DT Connector and Night Light

DuraLED® combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for 24V commercial vehicles. Optic appears clear until illuminated.







Rear view showing DT connector that allows application of selfadhesive heat shrink.

#### DuraLED® Combi-R Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector

DuraLED® combination lamp with 34cm² red retro reflector which features Enhanced Definition Technology (EDT). Suitable for light commercial vehicle and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing.





















2377	2VA 980 710-011					
2377BL	2VA 980 710-	2VA 980 710-012 BLISTER PACK			BLISTER PACK	
2377BULK	2VA 980 710-	-017				PACK OF 12
Mounting		Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.				
Voltage	Multivolt <sup>™</sup> for a	ptimum brightn	ess in 12	and 24 volt syste	ms	
Power Consumption	Stop: Rear position: Rear direction i	·				
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)					
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable					
Lens Material	Nylon (PA12)					
Compliance	ADR 47/00 ©24 5882	ADR 6/00: Ca ECE R6/01	t 2a	ADR 49/00 ECE R7/02	<b>Æ</b> EC	<b>∆</b> E R3/02
See page 76 for DuraLED® accessories.						

COMBI-R LAMP FUNCTIONS			
Stop	Rear position	Rear direction indicator	

# DuraLED® Combi-R Trailer Lighting Kit

A complete Fit and Forget solution for trailers or caravans.













2377-TP	2VA 980 710-811		
Kit Contents	Each trailer lamp kit contains:		
	2 x 2377	DuraLED® Combi-R stop/rear position and rear direction indicator lamp with retro reflector and 6m sheathed multi-core cable	
	1 x 2559-1 1 x 4921	LED licence plate lamp with 5m sheathed multi-core cable 7 pole flat plug	

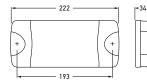












2380	2SK 980 603-501			
2380BULK	2SK 980 603-507 PACK OF 12			
2380GMD	2SK 980 603-551	NYLON (PA12) LENS		
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	3		
Power Consumption	Stop: 5W Rear position: 1W Rear direction indicator: 4W Reverse: 3W			
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 49/00 22 5870 ECE R6/01 ECE R7/02	<b>E</b> CE R23/00		

# See page 76 for DuraLED® accessories. **COMBINATION LAMP FUNCTIONS**

#### DuraLED® Combi Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp

DuraLED® combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for trucks and utes. Optic appears clear until illuminated.





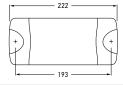


Stop





Rear position



Reverse

Rear direction indicator

			173		
2380DT	2SK 980 615	2SK 980 615-011			
2380DTGMD	2SK 980 615	-051		NYLON (	PA12) LENS
Mounting		Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting			
Voltage	Multivolt <sup>™</sup> for o	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	Stop: Rear position: Night:	5W 1W 1W	Rear direction in Reverse:	ndicator:	4W 3W
Protection	IP 6K7 (Protect	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Accessory	4963-P 6 pole DT plug, wedge and 6 contacts				
Compliance	ADR 1/00 24 5870	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02	<b>&amp;</b> ECE R23/00	

#### DuraLED® Combi Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp with DT Connector and Night Light

DuraLED® combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for trucks and utes. Optic appears clear until illuminated.









connector that allows application of self-adhesive heat shrink.

#### DuraLED® Combi-SR Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp with Retro Reflector

DuraLED® Combi-SR incorporates a built-in retro reflector, saving both time and money on installation. The all-in-one design makes the DuraLED® Combi-SR the ideal choice for trucks, utes and vehicles with limited space to mount a separate reflector.





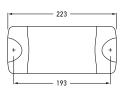




Rear view showing DT connector



4963-P (not included with lamp)





















2VP 015 074-001	CARTON PACK
2VP 015 074-002	BLISTER PACK
2VP 015 074-007	PACK OF 12
2VP 015 074-101	HCS 12/24V
2VP 015 075-001	DT
2VP 015 075-101	DT, HCS 12/24V

Mounting	Suitable for horizontal mounting Two hole surface mount with mounting bushes supplied		
Voltage	Multivolt™ suitable for 12 and 24 volt systems		
Power Consumption	Stop: 5W Rear position: 1.5W Rear direction indicator: 6W Reverse: 2W Night light: 1.5W (DT version only)		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable (non DT version)		
Accessory	4963-P 6 pole DT plug, wedge and 6 contacts (DT version)		
Lens Material	Nylon (PA12)		
Compliance	ECE R148 ECE R150 ECE R10 ISO 13207-1  ADR 1/00, ADR 6/00: Cat 2a, ADR 47/00, ADR 49/00		

See page 76 for DuraLED® accessories.

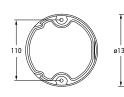
# COMBI-SR LAMP FUNCTIONS Stop Rear position Rear direction indicator Reverse











2366	2SB 959 821-001			
2366BL	2SB 959 821-002	2SB 959 821-002		
Mounting	Two hole surface mo	ount with mounting	bushes supplied	
Voltage	Multivolt™ for optimu	ım brightness at in	put voltages from 9 to	33 volts
Power Consumption		2.5W 0.5W		
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Compliance	ADR 49/00	E4 10208	ECE R7/02	፟
See page 78 for EuroLED® accessories.				

#### EuroLED® Stop/Rear Position Lamp

EuroLED® stop, rear position lamp with red lens. The use of precision optics enables a single high intensity LED to be used in a commercial vehicle lamp, resulting in low power consumption. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.











2366-24V	2SB 959 020-001	2SB 959 020-001		
Mounting	Two hole surface m	Two hole surface mount with mounting bushes supplied		
Voltage	24V DC (Voltage reg	24V DC (Voltage regulated 20-28V DC)		
Power Consumption	Stop: Rear position:	5W 1W		
Protection	As per Part No. 2366.			
Cable Length	Pre-wired with 2.5r	Pre-wired with 2.5m of sheathed multi-core cable		
Compliance	ADR 49/00	E4) 10208	ECE R7/02	<u>&amp;</u>
See page 78 for EuroLED® accessories.				

#### EuroLED® Stop/Rear Position Lamp -24V DC

EuroLED® stop, rear position lamp with red lens. The use of precision optics enables a single high intensity LED to be used in a commercial vehicle lamp, resulting in low power consumption. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.







1433	2ZR 959 820-001		
1433BL	2ZR 959 820-002		
Mounting	Two hole surface mount with mounting bushes supplied		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts		
Power Consumption	2.5W		
Protection	As per Part No. 2366		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Compliance	ADR 1/00 (E4) 10208 ECE R23/00		
Reversing lamps are not designed for continuous operation.			

#### EuroLED® Reversing Lamp

EuroLED® reversing lamp with clear lens and single LED.





#### **EuroLED® Rear Direction Indicator Lamp**

EuroLED® rear direction indicator lamp with amber lens and single LED. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.













2133	2BA 959 822-001				
2133BL	2BA 959 822-002	BLISTER PACK			
2133-CS	2BA 959 822-641	HCS TECHNOLOGY			
Mounting	Two hole surface mount with mounting bushes supplied	Two hole surface mount with mounting bushes supplied			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts				
Power Consumption	2.5W				
Protection	As per Part No. 2366				
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable				
Compliance	ADR 6/00: Cat 2a E4 10208 ECE R6/01 ISO 13207-1 (213	33-CS only)			
See page 276 for further information on HCS Technology and ISO 13207-1. See page 78 for EuroLED® accessories.					

#### EuroLED® Rear Direction Indicator Lamp - 24V DC

EuroLED® rear direction indicator lamp with amber lens and single LED. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.





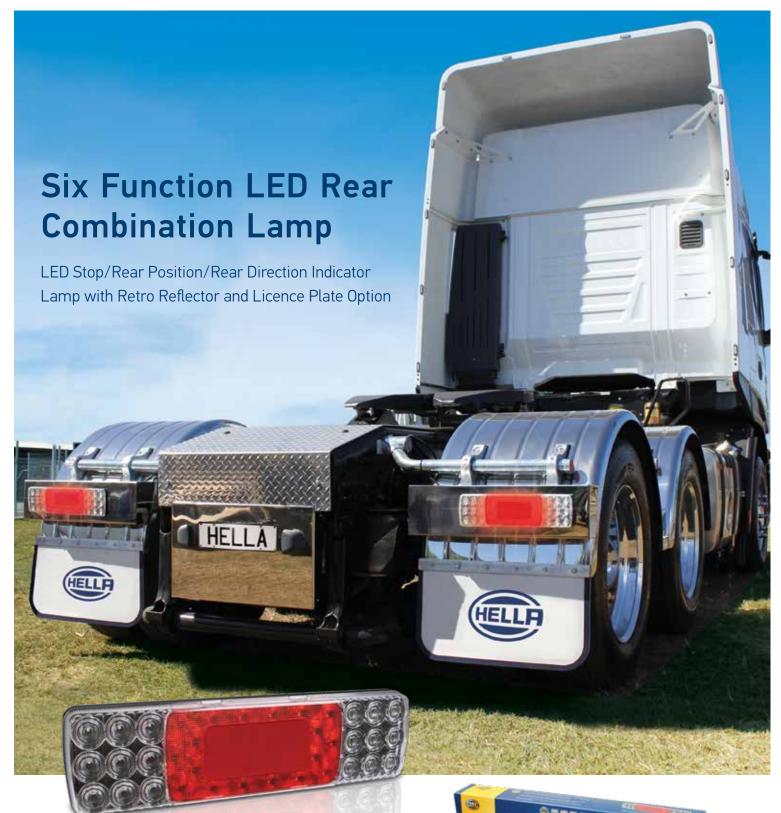








2133-24V	2BA 959 021-001			
Mounting	Two hole surface mount with mounting bushes supplied			
Voltage	24V DC (Voltage regulated 20-28V DC)			
Power Consumption	5W			
Protection	As per Part No. 2366			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Compliance	ADR 6/00: Cat 2a			
See page 78 for EuroLED® accessories.				



These stylish lamps combine form with function, incorporating stop, rear position, and rear direction indicator lamps with a central reflector, and offer an optional licence plate lamp function. To combine all rear marker and signal functions in a single lamp with a single five core cable allows for a significant reduction in installation time.

This lamp is protected by a lens made of specially formulated high impact acrylic, which is resistant to long-term harsh UV exposure and tolerant to chemicals commonly used in the transport industry. Our team designed this lamp to HELLA's Fit and Forget standard, to withstand the most demanding environments.



All features of this six function rear combination lamp, including the latest ISO 13207-1 compliance, are designed to ensure lowest cost of ownership for the astute transport operator.

#### LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with Retro Reflector

LED combination lamp with 64cm² red retro reflector. Modern clear lens design with black mounting base.

Features HCS Technology with ISO 13207-1 compliance. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Direction indicator optic appears clear until illuminated.





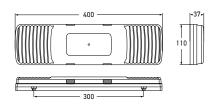












2391	2VP 980 980-001	•	HCS TECHNOLOGY - 24V ONLY	
Mounting	Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.			
Voltage	Multivolt™ for optimum bright	Multivolt™ for optimum brightness in 12 and 24 volt systems		
Power Consumption	Stop: Rear position: Rear direction indicator: Reverse:	5W <2W 6W 5W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Compliance	ADR 1/00 ADR 6/00: Cat 2a	ADR 47/00 ADR 49/00 ISO	13207-1	
See page 276 for further information on HCS Technology and ISO 13207-1.				

COMBINATION LAMP FUNCTIONS					
Stop	Rear position	Rear direction indicator	Reverse		

#### LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with Retro Reflector and Licence Plate Function

LED combination lamp with 64cm<sup>2</sup> red retro reflector and licence plate function. Modern clear lens design with black mounting base.

Features HCS Technology with ISO 13207-1 compliance. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Direction indicator optic appears clear until illuminated.















2392L	2VD 980 980-011 - Left Ha	HCS TECHNOLOGY - 24V ONLY		
2392R	2VD 980 980-021 - Right F	HCS TECHNOLOGY - 24V ONLY		
Mounting	Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	Stop: Rear position/Licence plate: Rear direction indicator: Reverse:	5W <2W 6W 5W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 48/00 ADR 49/00 ISO 13207-1			

See page 276 for further information on HCS Technology and ISO 13207-1.















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2394	2VA 980 720-071			=	
2394BULK	2VA 980 720-077 PACK 0F 18				
2394-6M	2VA 980 720-021	2VA 980 720-021			
2394-6MBULK	2VA 980 720-027			PACK OF 10	
2394-9MBULK	2VA 980 720-037			PACK OF 12	
Mounting		Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.			
Voltage	Multivolt <sup>™</sup> for optimu	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	Stop: 2W Rear position: 1W Rear direction indicator: 2W				
Protection	Reverse polarity and transient spike circuit protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Cable Length	2394 Pre-wired with 0.5m of sheathed multi-core cable 2394-6M Pre-wired with 6m of sheathed multi-core cable 2394-9M Pre-wired with 9m of sheathed multi-core cable				
Spare Parts	9.2394.08 Mounting base 9.2394.09 Mounting spacer (not included)				
Lens Material	Nylon (PA12)				
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00	<b>&amp;</b>	

#### LED Stop/Rear Position /Rear Direction Indicator Lamp

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.











#### LED Stop/Rear Position/Rear Direction Indicator Lamp with Licence Plate Function

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector and licence plate function. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.





















2395	2VB 980 720-561					
2395BULK	2VB 980 720-567 PACK OF 18				OF 18	
2395-6M	2VB 980 720-511					
2395-6MBULK	2VB 980 720-513	3			PACK	OF 10
2395-9MBULK	2VB 980 720-527	2VB 980 720-527 PACK OF 12				
Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.					
Voltage	Multivolt <sup>™</sup> for optim	Multivolt™ for optimum brightness in 12 and 24 volt systems				
Power Consumption	Stop: 2W Rear position/Licence plate: 1W Rear direction indicator: 2W					
Protection	Reverse polarity and transient spike circuit protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)					
Cable Length	2395 Pre-wired with 0.5m of sheathed multi-core cable 2395-6M Pre-wired with 6m of sheathed multi-core cable 2395-9M Pre-wired with 9m of sheathed multi-core cable					
Spare Parts	9.2394.08 Mounting base 9.2394.09 Mounting spacer (not included)					
Lens Material	Nylon (PA12)					
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 48/00	ADR 49/	/00	<u> </u>

TRAILER LAMP FUNCTIONS				
Stop	Rear direction indicator	Rear position/ Licence plate		

#### LED Combination Lamp Trailer Kit

LED trailer lamp incorporating a modern clear lens design with an 18cm<sup>2</sup> red retro reflector. The optic in the lamp appears clear until illuminated.















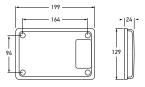
2395-TP	2VB 980 720-811		-
2395-TP9M	2VB 980 720-861	=	9M CABLE
Lens Material	Acrylic		
Kit Contents	Each trailer lamp ki	t contains:	
	1 x 2394	Stop/rear position/rear direction indicator with reflex reflector	·
	1 x 2395 8 x Connectors	Stop/rear position/rear direction indicator, licence plate lamp function with reflex refle Crimp connectors with heat shrink insulati	ector











2361	2TA 980 760-011			
2361BL	2TA 980 760-012			
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	Stop: 5W Rear position: 1W			
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 200mm of cable			
Compliance	ADR 47/00 ADR 49/00			
See page 79 for Jumbo-	S accessories.			

#### Jumbo-S LED Stop /Rear Position Lamp

Jumbo-S LED stop, rear position lamp with inbuilt 23cm<sup>2</sup> red retro reflector, featuring Enhanced Definition Technology (EDT) for the stop signal function. New low profile design allows surface mounting with gasket accessory (Part No. 9.2361.08).













2161	2BR 980 761-011			
2161BL	2BR 980 761-012	BLISTER PACK		
2161-CS	2BR 980 761-021	HCS TECHNOLOGY - 24V ONLY		
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	4W			
Protection	As per Part No. 2361			
Cable Length	Pre-wired with 200mm of cable			
Compliance	ADR 6/00: Cat 2a ADR 47/00 ISO 13207-1 (2161-CS or	nly) 🙆		
See page 276 for further	information on HCS Technology and ISO 13207-1.			

# Jumbo-S LED Rear Direction Indicator Lamp

Jumbo-S LED rear direction indicator lamp with inbuilt 23cm<sup>2</sup> red retro reflector. New low profile design allows surface mounting with gasket accessory (Part No. 9.2361.08). Features HCS Technology with ISO 13207-1 compliance.





#### Jumbo-S LED Reversing Lamp

Jumbo-S LED reversing lamp with inbuilt 23cm<sup>2</sup> red retro reflector. New low profile design allows surface mounting with gasket accessory (Part No. 9.2361.08).









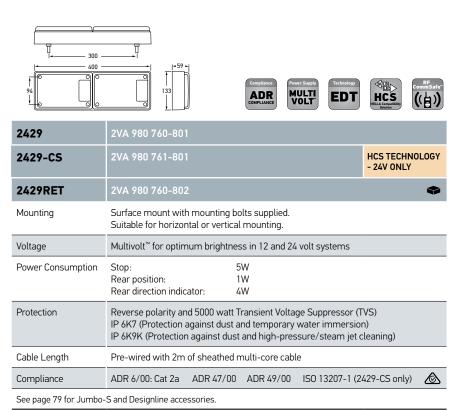
1461	2ZR 980 762-011
1461BL	2ZR 980 762-012
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 200mm of cable
Compliance	ADR 1/00 ADR 47/00
Reversing lamps are no	t designed for continuous operation.

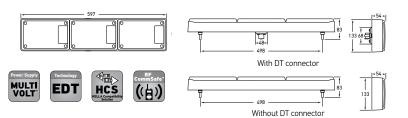
#### Jumbo-S LED Double Module Stop/Rear Position/Rear Direction Indicator Lamp

Jumbo-S LED stop, rear position, rear direction indicator lamp with 23cm<sup>2</sup> red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance.









2430	2VA 980 760-811						
2430-CS	2VA 980 761-811	HCS TECHNOLOGY - 24V ONLY					
2430RET	2VA 980 760-812	•					
2430DTCS	2VA 980 761-941	HCS TECHNOLOGY - 24V ONLY, DT					
Mounting	As per Part No. 2429-CS						
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems						
Power Consumption	Stop: 5W x 2 Rear position: 1W x 2 Rear direction indicator: 4W						
Protection	As per Part No. 2429-CS						
Cable Length	Pre-wired with 2m of sheathed multi-core cable.						
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2430-CS and 2430DTCS only)	_					

#### Jumbo-S LED Triple Module Stop /Rear Position/Rear Direction Indicator Lamp

Jumbo-S LED stop, rear position, rear direction indicator lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance.







ADR







2431	2VP 980 760-821						
2431-CS	2VP 980 761-821	2VP 980 761-821 HCS TECHNOLOGY - 24V ONLY					
2431RET	2VA 980 760-822		•				
2431DTCS	2VA 980 761-951		HCS TECHNOLOGY - 24V ONLY, DT				
Mounting	As per Part No. 2429-CS						
Voltage	Multivolt™ for optimum brightness in	2 and 24 volt systems					
Power Consumption	Stop 5W Rear position: 1W Rear direction indicator: 4W Reversing: 4W						
Protection	As per Part No. 2429-CS						
Cable Length	Pre-wired with 2m of sheathed multi-core cable						
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 49/00 ISO 13207-1 (243	ADR 47/00 1-CS and 2431DTCS only	y) 💩				

#### Jumbo-S LED Triple Module Stop /Rear Position/Rear Direction Indicator/Reversing Lamp

Jumbo-S LED stop, rear position, rear direction indicator and reversing lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance. (See page 276 for further information on HCS Technology and ISO 13207-1).

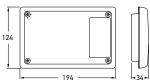


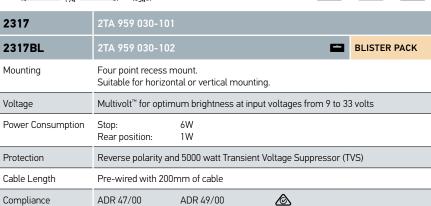


#### Jumbo LED Module Stop /Rear Position Lamp with Red Retro Reflector

Jumbo LED Multivolt™ module designed to update existing Jumbo or Designline lamps with Enhanced Definition Technology (EDT). Reflector area 33cm².







See page 79 for Designline accessories.



#### Jumbo LED Module Rear Direction Indicator Lamp with Red Retro Reflector

Jumbo LED Multivolt™ module designed to update existing Jumbo or Designline lamps. Reflector area 33cm².







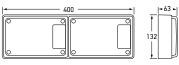


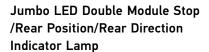
2138	2BR 959 031-011							
2138BL	2BR 959 031-012	BLISTER PACK						
Mounting	Four point recess mount. Suitable for horizontal or vertical mounting.							
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts							
Power Consumption	9W							
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)							
Cable Length	Pre-wired with 200mm of cable							
Compliance	ADR 6/00: Cat 2a ADR 47/00							











LED Stop/Rear Position/Rear Direction Indicator Lamp with in-built retro reflector.

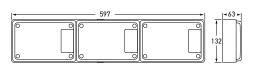


2422LED	2VA 959 030-421					
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.					
Voltage	Multivolt™ for optimum brightness in 9 and 33 volt systems					
Power Consumption	Stop: 6W Rear position: 1W Rear direction indicator: 6W					
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)					
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable					
Compliance	ADR 6/00: Cat 2a					









#### 2416LED Mounting Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting. Voltage Multivolt $\it ^{\rm m}$ for optimum brightness in 9 and 33 volt systems Power Consumption Stop: 6W x 2 Rear position: 1W x 2 6W x 1 Rear direction indicator: Protection Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Cable Length Pre-wired with 0.5m of sheathed multi-core cable Compliance ADR 6/00: Cat 2a ADR 47/00 ADR 49/00

#### Jumbo LED Triple Module Stop /Rear Position/Rear Direction Indicator Lamp

LED Stop/Rear Position/Rear Direction Indicator Lamp with in-built retro reflector.



#### Designline LED Module Stop /Rear Position Lamp

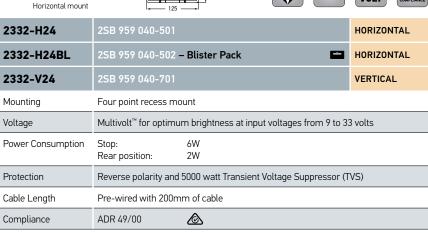
Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.







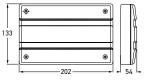




#### Designline LED Module Stop /Rear Position Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.





See page 79 for Designline accessories.

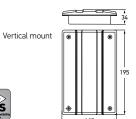


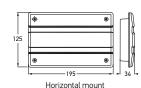






2320LED-H	2SB 959 040-561	HORIZONTAL			
Mounting	Four point recess mo	punt			
Voltage	Multivolt™ for optimu	m brightness at input voltages from 9 to 33	3 volts		
Power Consumption	Stop: Rear position:	6W 2W			
Protection	Reverse polarity and	5000 watt Transient Voltage Suppressor (T	VS)		
Cable Length	Pre-wired with 200m	m of cable			
Compliance	ADR 49/00	<b>&amp;</b>			
See page 79 for Designline accessories.					













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		•		_		195	34
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2146-H24	2BA 959 041-501	HORIZONTAL					
2146-H24BL	2BA 959 041-502 – Blister Pack	HORIZONTAL					
2146-HCS	2BA 959 041-511 – Incorporates HCS Technology	HORIZONTAL					
2146-V24	2BA 959 041-701	VERTICAL					
2146-VCS	2BA 959 041-711 – Incorporates HCS Technology	VERTICAL					
Mounting	Four point recess mount	Four point recess mount					
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts						
Power Consumption	Part No. 2146-H24/2146-V24: 6W Part No. 2146-HCS/2146-VCS: 4W						
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)						
Cable Length	Pre-wired with 200mm of cable						
Compliance	ADR 6/00: Cat 2a ISO 13207-1 (2146-HCS or 2146-VCS only)						
See page 276 for further information on HCS Technology and ISO 13207-1.							

#### Designline LED Module Rear **Direction Indicator Lamp**

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.













2144LED-H	2BA 959 041-111	HORIZONTAL
Mounting	Four point surface mount	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts
Power Consumption	6W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (T	VS)
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 6/00: Cat 2a	

#### Designline LED Module Rear **Direction Indicator Lamp**

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



#### Designline LED Module Reversing Lamp

Designline LED Multivolt™ module designed to update existing Designline lamps. The high performance module features 36 High Efficacy LEDs that more than triples the raw lumen output over the standard module. High precision optics ensure ADR compliance by focusing the majority of light down ensuring wide illumination and improved safety when reversing.





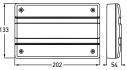


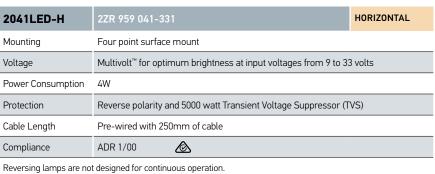
Horizontal mou	unt 125						
1446-H	2ZR 959 041-321						
1447L	2ZR 959 041-371 – High performance - Left hand side	HORIZONTAL					
1447R	2ZR 959 041-361 - High performance - Right hand side						
1446-V	2ZR 959 041-411	VERTICAL					
Mounting	Four point recess mount						
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts					
Power Consumption	Part No. 1446-H/1446-V: 4W Part No. 1447L/1447R: 7W						
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (T	VS)					
Cable Length	Pre-wired with 200mm of cable						
Compliance	ADR 1/00 💩						
Reversing lamps are not designed for continuous operation.							

#### Designline LED Module Reversing Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps.







ADR

ADR

#### Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

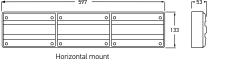
LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp featuring EDT (Enhanced Definition Technology) for the stop signal function and unique UWVO (Ultra Wide Visibility Optics) for significantly improved side visibility.



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		Horizor	ital mount				

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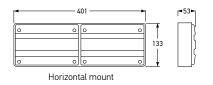
2424LED-H	2SK 959 040-53				HORIZONTAL
Mounting	Surface mount with mounting bolts supplied				
Voltage	Multivolt™ for optimum brightness in 9 and 33 volt systems				
Power Consumption	Stop Rear position:	6W 2W	Rear direction indicator: Reverse:	6W 21W	1
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)				
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable				
Compliance	ADR 1/00 ADI	R 6/00: Cat	2a ADR 47/00	ADR 49.	/00 💩











2426-H	2SD 959 040-801		HORIZONTAL
2426-V	2SD 959 040-901		VERTICAL
2426-HRET	2SD 959 040-802		•
Mounting	Two bolt surface mount		
Voltage	Multivolt™ for optimum bright	ness at input voltages from 9 to 33	3 volts
Power Consumption	Stop: Rear position: Rear direction indicator:	6W 2W 6W	
Cable Length	Pre-wired with 2m of multi-co	ore cable	
Spare Part	9.2422.09	Double housing	
Compliance	ADR 6/00: Cat 2a	ADR 49/00 💩	
See page 79 for Designline accessories.			

#### Designline LED Double Module Stop/Rear Position/Rear Direction Indicator Lamp

Double Designline LED module pre-assembled and wired for easy installation. Features a 2m wiring loom and encapsulated bolts to ensure lamp does not need to be disassembled to mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



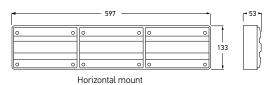












2427-H	2SD 959 040-811		HORIZONTAL
2427-HRET	2SD 959 040-812		•
Mounting	Two bolt surface mount		
Voltage	Multivolt™ for optimum brigh	tness at input voltages from 9 to 3	3 volts
Power Consumption	Stop: Rear position: Rear direction indicator:	6W x2 2W x 2 6W x 1	
Cable Length	Pre-wired with 2m of multi-c	ore cable	
Spare Part	9.2423.09	Triple housing	
Compliance	ADR 6/00: Cat 2a	ADR 49/00 💩	

#### Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator Lamp

Triple Designline LED module pre-assembled and wired for easy installation. Features a 2m wiring loom and encapsulated bolts to ensure lamp does not need to be disassembled to mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.













2428-H	2SK 959 041-811			HORIZONTAL
2428-V	2SK 959 041-911			VERTICAL
2428-HRET	2SK 959 041-812			•
Mounting	Two bolt surface mount			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts			
Power Consumption	Stop: Rear position: Rear direction indica Reverse:	6W 2W tor: 6W 4W		
Cable Length	Pre-wired with 2m of multi-core cable			
Spare Part	9.2423.09	Triple housing		
Compliance	ADR 1/00	ADR 6/00: Cat 2a	ADR 49/00	<b>&amp;</b>
Reversing lamps are not designed for continuous operation.				

#### Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp





#### 110mm Round LED Front Position /Front Direction Indicator Lamp - Clear Lens

LED front direction indicator and front position lamp specifically designed for commercial transport, buses, caravans and trailers. Direction indicator optic appears clear until illuminated.





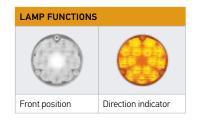






2106-CS	2BE 959 932-132 – Incorp	oorates HCS Technolog	ду	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts			
Power Consumption	Front position: Front direction indicator:	<1W 3W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)			
Cable Length	Pre-wired with 200mm of cable			
Compliance	ADR 6/00: Cat 1 ECE R7/02	ADR 49/00	ECE R6/ ISO 132	•
Consequence 27/ for fronth an information on LICC Technology, and ICO 12207.1				

See page 276 for further information on HCS Technology and ISO 13207-1.



#### 110mm Round LED Front Direction Indicator Lamp - Clear Lens

LED front direction indicator specifically designed for trucks, buses and motor homes. Optic appears clear until illuminated.







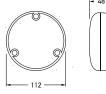


2105CLR	2BA 959 932-211	MODULE	
Mounting	Mount only with lens engraving "TOP" located correctly		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts		
Power Consumption	4W		
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (T IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion		
Cable Length	Pre-wired with 200mm of cable		
Compliance	ADR 6/00: Cat 1 💩		
See page 276 for further information on HCS Technology and ISO 13207-1.			

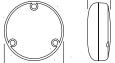
hella.com.au

LED front direction indicator specifically designed for trucks, buses and motor homes.

110mm Round LED Front Direction Indicator Lamp - Amber Lens







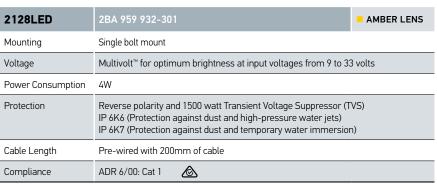




2135LED	2BA 959 932-311	BLACK BASE	
2105	2BA 959 932-201	MODULE	
Mounting	Mount only with lens engraving "TOP" located correctly		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 3	3 volts	
Power Consumption	Part No. 2135LED/2105: 4W		
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (T IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion	·	
Cable Length	Pre-wired with 200mm of cable		
Compliance	ADR 6/00: Cat 1 💩		
See page 276 for further information on HCS Technology and ISO 13207-1.			







#### **LED Front Direction Indicator** Lamp (Cat.1)

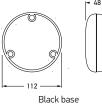
Single-sided LED front direction indicator fitted with high-intensity LED insert and black housing. Fully sealed to withstand high-pressure washing.



#### 110mm Round LED Stop /Rear Position Lamp

110mm round LED stop, rear position lamp specifically designed for commercial transport, buses, caravans and trailers. Features low power consumption and impact resistant acrylic lens.













2367	2SB 959 931-111	BLACK BASE
2365	2SB 959 931-001	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts
Power Consumption	Stop: 3W Rear position: 1W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (T IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion	·
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 49/00 💩	

#### 110mm Round LED Rear Direction **Indicator Lamp**











2167	2BA 959 932-711	BLACK BASE	
2165	2BA 959 932-501	MODULE	
Mounting	Mount only with lens engraving "TOP" located correctly		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 3	3 volts	
Power Consumption	3W		
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (T IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion	·	
Cable Length	Pre-wired with 200mm of cable		
Compliance	ADR 6/00: Cat 2a		
See page 276 for further information on HCS Technology and ISO 13207-1.			

#### 110mm Round LED Reversing Lamp







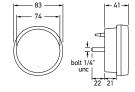
1467	2ZR 959 930-111	BLACK BASE	
1465	2ZR 959 930-001	MODULE	
Mounting	Mount only with lens engraving "TOP" located correctly		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts	
Power Consumption	5W		
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (T IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion	·	
Cable Length	Pre-wired with 200mm of cable		
Compliance	ADR 1/00 💩		
Reversing lamps are not designed for continuous operation.			











2108-GMD	2BE 980 687-111			12 VOLT DC
2108-GMD24V	2BE 980 686-011			24 VOLT DC
Mounting	Flush mount. Single bolt	1/4" stainless UN	C thread. Nut and was	her supplied
Power Consumption	2108-GMD         2108-GMD24V           Safety DayLights:         4W         4W           Front position:         1W         1W           Front direction indicator:         3W         4W			
Protection	Reverse polarity and transient spike circuit protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Lens Material	Nylon (PA12)			
Compliance	ADR 6/00: Cat 1 (£24) 5854	ADR 49/00 ECE R6/01	ADR 76/00 ECE R7/02	<b>&amp;</b> ECE R87/00
See page 79 for mounting accessories.				

# 83mm Round LED Safety DayLights/Front Position /Front Direction Indicator Lamp

This LED combination lamp features an integrated Safety DayLight™, front position indicator and front position function.

The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight™. This lamp eliminates the need for installation of multiple lamps.

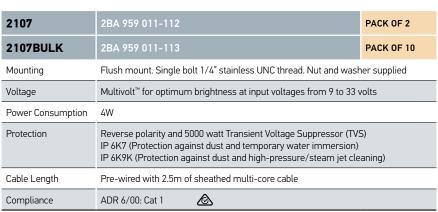












# 83mm Round LED Front Direction Indicator Lamp

Compact, low profile LED front direction indicator fitted with amber polycarbonate lens. Fully sealed to withstand high-pressure washing.

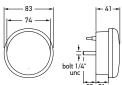


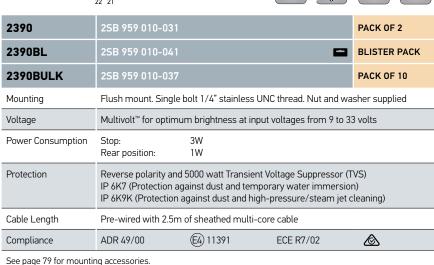
### 83mm Round LED Stop /Rear Position Lamp

83mm diameter LED stop, rear position lamp with single bolt mount, featuring Enhanced Definition Technology (EDT). Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.









# 83mm Round LED Rear Direction Indicator Lamp

83mm diameter LED rear direction indicator lamp with single bolt mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.





### 2130 PACK OF 2 2130BL **BLISTER PACK** 2130BULK PACK OF 10 Mounting Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied Voltage Multivolt™ for optimum brightness at input voltages from 9 to 33 volts Power Consumption Protection As per Part No. 2390 Cable Length Pre-wired with 2.5m of sheathed multi-core cable Compliance ADR 6/00: Cat 2a (E4) 11391 ECE R6/01 Contact HELLA for 24 volt HCS version.

**ADR** 

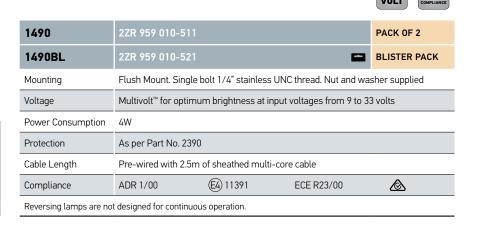
ADR

### 83mm Round LED Reversing Lamp

83mm diameter LED reversing lamp with single bolt mount.





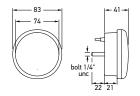












### 83mm Round LED Stop/ Rear Position/Rear Direction **Indicator Lamp**

83mm diameter LED stop, rear position and rear direction indicator lamp with single bolt mount.

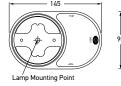


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2399BL

2399	2SD 959 010-202	PACK OF 2	
2399BL	2SD 959 010-231		BLISTER PACK
2399BULK	2SD 959 010-217		PACK OF 10
Mounting	Flush mount. Single bolt 1/4"	stainless UNC thread. Nut and	washer supplied
Voltage	Multivolt™ for optimum bright	ness in 12 and 24 volt systems	3
Power Consumption	Stop: Rear position: Rear direction indicator:	3W 1W 3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Bulk pack pre-wired with 6m of sheathed multi-core cable.		
Compliance	ADR 6/00: Cat 2a (E9) 1538	ADR 49/00	<b>S</b> E R7/02
Contact HELLA for 24 volt HCS version. See page 79 for mounting accessories.			







### Red Retro Reflector Base

Red retro reflector to suit 83mm round lamps. Reflector area 31.7cm<sup>2</sup>.



2934-Н	8RA 980 565-102	HORIZONTAL
2934-V	8RA 980 565-502	VERTICAL
Mounting	Utilises bolt mount from 83mm round lamps	
Compliance	ADR 47/00	

### **LED Front Direction Indicator** Lamp - Surface Mount

Surface mount LED front direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.







+ (	283	Compliance ADR COMPLIANCE
2109	2BA 980 888-301 – Horizontal Mount	12 VOLT DC
2109BL	2BA 980 888-322 – Blister Pack - Horizontal Mount	12 VOLI DC
2109-24V	2BA 980 888-401 – Horizontal Mount	24 VOLT DC
2109-24VBL	2BA 980 888-422 – Blister Pack - Horizontal Mount	24 VOLI DC
2109V	2BA 980 888-501 – Vertical Mount	12 VOLT DC
2109V-24V	2BA 980 888-601 – Vertical Mount	24 VOLT DC
Power Consumption	3W	
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cle	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs	with 0.5m cable)
Lens Material	Nylon (PA12)	
Compliance	ADR 6/00: Cat 1 Horizontal 24 5869 Vertical 24 5890	ECE R6/01

See page 80 for surface mount strip lamp screw caps.

### **LED Slim Surface Mount Combination Lamp**

The Surface Mount Strip lamp features an extremely durable Nylon (PA12) lens that is impact, UV and chemical resistant. Ultraefficient LEDs offer increased reliability while reducing power consumption, maintenance and operational costs.



2110-24V LED Slim Surface Mount Combination Lamp Front Direction Indicator/Front Position

265	11 25 1		
90	Committee Commit	Safe™	ADR COMPLIANCE
2110-12V	2BE 980 819-301	12 VOLT	
2110-24V	2BE 980 819-401	24 VOLT	
Mounting	Suitable for horizontal and vertical mounting		
Power Consumption	Front position: <1W Front direction indicator: 3W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion IP 6K9K (Protection against dust and high-pressure/steam jet		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Lens Material	High impact and chemical resistant Nylon (PA12) lens		
Spare Parts	9.2652.09       White screw caps (Pack of 4)         9.1009.09       Charcoal screw caps (Pack of 4)         9.1009.10       Chrome screw caps (Pack of 4)		
Compliance	ADR 49/00 ADR 6/00: Cat 1		
Includes mounting screv	ws and charcoal screw caps.		











2168	2BA 980 888-001	12 VOLT DC
2168BL	2BA 980 888-022 – Blister Pack	12 VOLI DC
2168-24V	2BA 980 888-201	24 VOLT DC
2168-24VBL	2BA 980 888-222 – Blister Pack	24 VOLI DC
Mounting	Suitable for horizontal and vertical mounting	
Power Consumption	3W	
Protection	As per Part No. 2109	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs	with 0.5m cable)
Lens Material	Nylon (PA12)	
Compliance	ADR 6/00: Cat 2a	

# PART NO. 2109/...-24V PART NO. 2109V/...-24V PART NO. 2168/...-24V A5° A5°

Horizontal mount: +/- 45° rotation around lamp (and vehicle) axis

Vertical mount: +/- 45° rotation around lamp (and vehicle) axis

Horizontal mount & Vertical mount: 360° rotation around lamp (and vehicle) axis

# LED Rear Direction Indicator Lamp – Surface Mount

Surface mount LED rear direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.







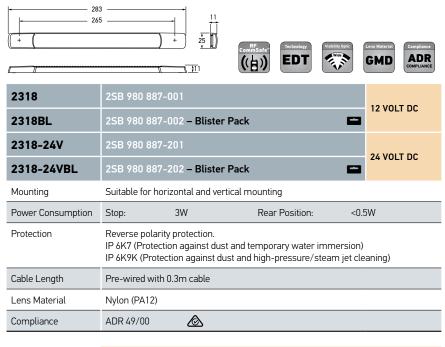
# LED Stop/Rear Position Lamp - Surface Mount

Surface mount LED stop/rear position lamp that features Enhanced Definition Technology (EDT) and is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.











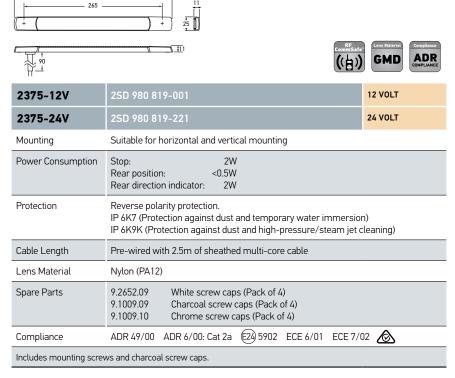
# LED Slim Surface Mount Combination Lamp

The Surface Mount Combination lamp features an extremely durable nylon (PA12) lens that is impact, UV and chemical resistant.

Ultra-efficient LEDs offer increased reliability while reducing power consumption, maintenance and operational costs.



2375-24V LED Slim Surface Mount Combination Lamp Stop/Rear Position/Rear Direction Indicator (Stop function shown)







1468







2ZR 980 889-001 - Horizontal Mount

1468BL	22R 980 889-022 - Blister Pack - Horizontal Mount	
1468-24V	2ZR 980 889-201 – Horizontal Mount	24 VOLT DC
1468-24VBL	2ZR 980 889-222 – Blister Pack - Horizontal Mount	24 VOLI DC
1468V	2ZR 980 889-101 – Vertical Mount	12 VOLT DC
1468V-24V	2ZR 980 889-301 – Vertical Mount	24 VOLT DC
Power Consumption	3W	
Protection	As per Part No. 2318	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs v	with 0.5m cable)
Lens Material	Nylon (PA12)	
Compliance	ADR 1/00 Horizontal 24 0027 Vertical 24 0028 ECE R23/	00
Reversing lamps are no	t designed for continuous operation.	

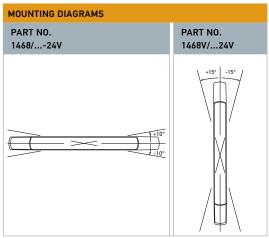
### LED Reversing Lamp – Surface Mount

Surface mount LED reversing lamp. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.









Horizontal mount: +/- 10° rotation around lamp (and vehicle) axis

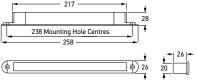
Vertical mount: +/- 15° rotation around lamp (and vehicle) axis

12 VOLT DC

### LED Stop/Rear Position Lamp

Red LED strip lamp suitable for coaches and buses, featuring Enhanced Definition Technology (EDT).









	<b>†</b> •		
2334	2SB 959 074-501		12 VOLT DC
2334-24V	2SB 959 074-001		24 VOLT DC
Mounting	Two hole recess mo Suitable for horizon	ount. Ital or vertical mounting.	
Power Consumption	Stop: Rear position:	2W 0.3W	
Protection	Reverse polarity pro	otection	
Cable Length	Pre-wired with 300	mm of cable	
Spare Part	9.5243.05	Gasket	
Compliance	ADR 49/00		

### **LED Rear Direction Indicator Lamp**

Amber LED strip lamp suitable for coaches and buses.





2156	2BA 959 075-501	12 VOLT DC
2156-24V	2BA 959 075-001	24 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable	
Spare Part	9.5243.05 Gasket	
Compliance	ADR 6/00: Cat 2a	

### LED High Level Brake Lamp

Strip LED lamp designed for rear spoiler applications.



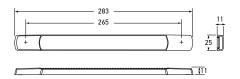


5243	2DA 959 071-59	1			12 VOLT DC
Mounting	Two hole recess me Suitable for horizon	o a	tical mounting.		
Power Consumption	2W	2W			
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Spare Part	9.5243.05	Gasket			
Compliance	ADR 49/00: Cat S3		E4 02 7547	ECE R7/0	2









5245	2DA 980 887-301	12 VOLT DC			
5245-24V	2DA 980 887-401	24 VOLT DC			
Mounting	Suitable for horizon	tal or vertical mounting			
Power Consumption	3W				
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable				
Lens Material	Nylon (PA12)				
Accessories	9.2652.09 White screw caps (Pack of 4) 9.1009.09 Charcoal screw caps (Pack of 4) 9.1009.10 Chrome plated screw caps (Pack of 4)				
Compliance	ADR 49/00: Cat S3	©24 02 0087 E	ECE R7/0	2	

MOUNTING DIAGRAMS	
+15°   -15°	\(\frac{+12^s}{\limits}\)
Horizontal mount: +/- 15° tilt (up/down)	Vertical mount: +/- 12° tilt (up/down)

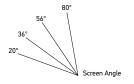
### LED Centre High Level Brake Lamp – Surface Mount

Surface mount LED high level brake lamp that is designed with an ultra wide visibility optic to suit a wide range of mounting positions and angles. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.





5237	2DA 959 190-001 <b>– Coupe</b>	20° - 36°			
5238	2DA 959 191-001 <b>– Sedan</b>	37° - 56°	12 VOLT DC		
5239	2DA 959 192-001 – Wagon	57° - 80°			
Mounting	Adhesive mounting tape. Window angles for Coupe are 20°- 36°, Sedan 37° - 56° and Wagon 57° - 80°				
Voltage	12V DC				
Power Consumption	3W				
Cable Length	Pre-wired with 2.5m of multi-core cable				
Compliance	ADR 49/00: Cat S3				



### LED Centre High Level Brake Lamp

Designed for rear windows of angles from 20° (Coupe) to 80° (Wagon). Supplied with installation kit and instruction sheet. Optic appears clear until illuminated.



5237 Shown illuminated



# LED Lift Platform Rear Direction Indicator – Amber

Low-profile LED Rear Direction Indicator for mounting on lift and loading platforms. Features robust die-cast zinc housing and impact-resistant polycarbonate lens for increased durability. Optic appears clear until illuminated in amber signal colour.





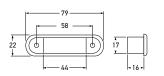


2103-12V	2BA 008 260-012	12 VOLT DC		
2103-24V	2BA 008 260-002	24 VOLT DC		
Mounting	Surface mount. M6 x 25mm mounting bolts included.			
Power Consumption	2.8W			
Protection	Sealed against dust and moisture to IP5K9K			
Cable Length	Pre-wired with 2.5m of cable			
Compliance	ADR 6/00 Cat 2a			
To be used in conjunction with primary vehicle rear direction indicators.				









# LED Flush Mount Front Position /End Outline Lamp

White front position or front end outline LED lamp (FEOL). Optic appears clear until illuminated.



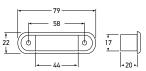
2055	2PF 959 590-491						
2055BULK	2PF 959 590-547 PACK OF 4						
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.						
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	S					
Power Consumption	<1W						
Protection	Reverse polarity protection.  IP 6K6 (Protection against dust and high-pressure water jets)  IP 6K7 (Protection against dust and temporary water immersion)						
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable	e.					
Compliance	ADR 49/00 (E4) 0054 ECE R7/02	<u>&amp;</u>					
See page 80 for spare page 80	arts and accessories.						











2056	2PF 959 590-3	341							
2056BULK	2PF 959 590-	357					I	PACK OF 4	
Mounting	Suitable for hori	izontal	moun	ing					
Compliance	ADR 49/00	L	<u></u>						
Other specifications	as ner Part No. 2055. 9	See nan	e 80 fo	r snare na	irts and acc	recories			

### LED Flush Mount Front End Outline Lamp

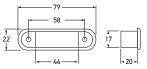
Amber front end outline LED lamp (FEOL) for trailers only. Optic appears clear until illuminated.











2057	2XS 959 650-01	1			
2057BULK	2XS 959 650-02	7		PACK OF 4	
Mounting	Suitable for horizo	ntal mount	ing		
Compliance	ADR 45/01	<b>&amp;</b>			
Other enecifications as	D N 20FF C	00 f			

### LED Flush Mount Cab Marker Lamp

Amber cab marker LED lamp. Optic appears clear until illuminated.









2308	2BA 959 610-	441			
2308BULK	2BA 959 610-	457		PACK OF 4	
Compliance	ADR 49/00	E4) 02 7597	ECE R7/02	<u>&amp;</u>	
Other specifications as per Part No. 2055. See page 80 for spare parts and accessories.					

### LED Flush Mount Rear Position /End Outline Lamp

Red rear end outline lamp (REOL) or rear position LED lamp. Optic appears clear until illuminated.



# DuraLED® Flush Mount Side Marker Lamp

Red/amber surface mount side marker lamp. Featuring a low profile of only 15mm and an ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated. Optional stainless steel rim.



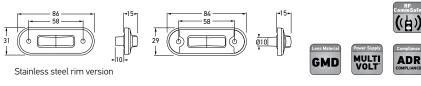




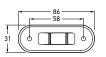




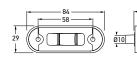
2083S



2083	2PS 980 868-041		=				
2083BULK	2PS 980 868-057 - Pack o	f 16					
20830EBULK	2PS 980 868-047 - Pack o	f 24					
20835	2PS 980 868-061	_					
2083SBULK	2PS 980 868-077 - Pack o	f 16	STAINLESS STEEL RIM				
Mounting	Surface mount. Suitable for horizontal mountii	ng.					
Voltage	Multivolt™ for optimum brightr	ness in 12 and 24 volt systems					
Power Consumption	0.5W						
Protection		t and temporary water immersion ist and high-pressure/steam jet c					
Cable Length	Pre-wired with 0.5m of sheath Bulk pack pre-wired with 2.5m	ed multi-core cable. n of sheathed multi-core cable.					
Spare Parts	9.2310.09BULK Black screw caps (Pack of 4) 95968500 Stainless steel rim - Polished						
Lens Material	Nylon (PA12)						
Compliance	ADR 45/01	<b>&amp;</b>					
See page 77 for DuraLE	D® marker lamp accessories.						















Stainless steel rim version

2086	2BM 980 868-301					
2086BULK	2BM 980 868-317 – Pa	ck of 16				
20865	2BM 980 868-321 POLISHED					
2086SBULK	2BM 980 868-337 <b>– Pa</b>	:k of 16	STAINLESS STEEL RIM			
Mounting	Surface mount. Suitable fo	r horizontal mounting.				
Voltage	Multivolt™ for optimum bri	ghtness in 12 and 24 volt systems				
Power Consumption	0.5W					
Protection		ı. dust and temporary water immersior t dust and high pressure/steam jet c				
Cable Length	Pre-wired with 0.5m of she Bulk pack pre-wired with 2	eathed multi-core cable. .5m of sheathed multi-core cable.				
Spare Parts	9.2310.09-BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim				
Lens Material	Nylon (PA12)					
Compliance	ADR 6/00: Cat 5					

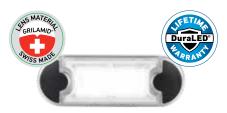
### Duraled® Flush Mount Supplementary Side Direction Indicator Lamp (Cat. 5)

The marker lamps feature a low profile of only 14mm and an ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



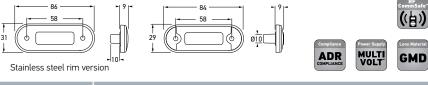
# DuraLED® Flush Mount Front Position/End Outline Lamp

White surface mount front position or front end outline LED lamp (FEOL) with optional stainless steel rim. Featuring a low profile ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.







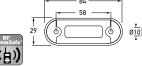


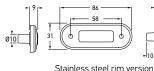
2059	2PF 980 855-011		=			
2059BULK	2PF 980 855-037 – Pack of 16					
20590EBULK	2PF 980 855-017 – Pack of 24					
20595	2PF 980 855-021					
2059SBULK	2PF 980 855-047 – Pack of 16		STAINLESS STEEL RIM			
Mounting	Surface mount. Suitable for horizontal or vertical mounting.					
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt sys	tems				
Power Consumption	0.5W					
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)					
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core of	cable.				
Spare Parts	9.2310.09BULK Black screw caps (Pack 95968500 Stainless steel rim - Po					
Lens Material	Nylon (PA12)					
Compliance	ADR 49/00 💩					
See page 77 for DuraLED® marker lamp accessories.						

# ADR









		Sldi	Titess steet fifti version
2060	2PF 980 855-201		
2060BULK	2PF 980 855-227 - Pack o	f 16	
2060S	2PF 980 855-211	-	POLISHED STAINLESS
2060SBULK	2PF 980 855-237 - Pack o	f 16	STEEL RIM
Mounting	Surface mount. Suitable for horizontal or vertice	cal mounting.	
Voltage	Multivolt™ for optimum brightr	ness in 12 and 24 volt system	ns
Power Consumption	0.5W		
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 0.5m of sheath Bulk pack pre-wired with 2.5m		le.
Spare Parts	9.2310.09BULK Black screw caps (Pack of 4) 95968500 Stainless steel rim - Polished		
Lens Material	Nylon (PA12)		
Compliance	ADR 49/00	<b>&amp;</b>	
See page 77 for DuraLED® marker lamp accessories.			

### **DuraLED® Flush Mount Front End Outline Lamps**

Amber surface mount front end outline LED lamp (FEOL) for trailers with optional stainless steel rim. Featuring a low profile ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.





Ultra slim design Featuring a thickness of just 9mm

2060S







2310	2XA 980 855-301	
2310BULK	2XA 980 855-327 – Pack of 16	
23100EBULK	2XA 980 855-307 – Pack of 24	
23105	2XA 980 855-311	POLISHED STAINLESS
2310SBULK	2XA 980 855-337 – Pack of 16	STEEL RIM

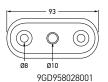
Other specifications as per Part No. 2060.



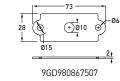
### DuraLED® Flush Mount Rear Position/End Outline Lamps

Red surface mount rear position or rear end outline LED lamp (REOL) with optional stainless steel rim. Featuring a low profile ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.











9GD980867007

9GD 980 867-007	SEAL ROUND
9GD 980 867-507	SEAL RECTANGULAR
9GD 958 028-001	SEAL CURVED

### **DuraLED® Flush Mount Gaskets**







9GD958028001

### **DuraLED® Side Marker Lamps**

Red/amber side marker LED lamp. Optic appears clear until illuminated.





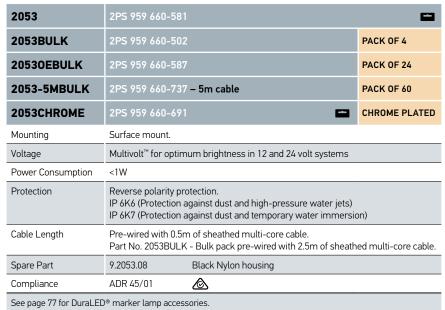












# DuraLED® Side Marker Lamps - Nylon (PA12)

Red/amber ultra high impact resistant side marker LED lamp featuring nylon (PA12) lens and nylon housing. Optic appears clear until illuminated.











2053GMD	2PS 959 660-481				
2053GMDBULK	2PS 959 660-477 PACK OF 4				
2053GMD0EBULK	2PS 959 660-487 PACK OF 24				
2053GMDDT	2PS 959 660-711 – 250mm cable with DT				
Mounting	Surface mount				
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems				
Power Consumption	<1W				
Protection	As per Part No. 2053				
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Part No. 2053GMDBULK - Bulk pack pre-wired with 2.5m of sheathed multi-core cable.				
Spare Part	9.2053.08 Black Nylon housing				
Lens Material	Nylon (PA12)				
Compliance	ADR 45/01				

### DuraLED® Cab Marker/ Supplementary Side Direction Indicator Lamps (Cat. 5)

Amber cab marker or supplementary side indicator LED lamp. Optic appears clear until illuminated.









2026	2BP 959 660-301			
2026BULK	2BP 959 660-357 PACK OF 4			
2026DT	2JA 959 660-361 – 250mm cable with DT			
Mounting	Surface mount			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	<1W			
Protection	As per Part No. 2053			
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.			
Spare Part	9.2053.08 Black Nylon housing			
Compliance	ADR 6/00: Cat 5 ADR 45/01			













### DuraLED® Front Position /End Outline Lamps

White ultra high impact resistant front end outline (FEOL) or front position LED lamp featuring nylon (PA12) lens on 2054GMD and nylon housing. Optic appears clear until illuminated.









2054	2PF 959 570-491				
2054BULK	2PF 959 570-557 PACK 0F 4				
2054DT	2PF 959 570-531 <b>– 250</b> i	nm cable with DT			
2054GMD	2PF 959 570-501 – With Nylon (PA12) Lens				
2054GMDBULK	2PF 959 570-517 – With Nylon (PA12) Lens PACK 0F 4				
Mounting	Surface mount. Suitable for	horizontal mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems				
Power Consumption	<1W				
Protection	Reverse polarity protection.  IP 6K6 (Protection against dust and high-pressure water jets)  IP 6K7 (Protection against dust and temporary water immersion)				
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.				
Spare Part	9.2053.08 Black Nylon housing				
Compliance	ADR 49/00 💩				
See page 77 for DuraLED® marker lamp accessories.					

# ADR COMPLIANCE







2051	2PF 959 570-301	
2051BULK	2PF 959 570-357	PACK OF 4
2051DT	2PF 959 570-361 – 250mm cable with DT	
2051GMD	2PF 959 570-101 – With Nylon (PA12) Lens	
2051GMDBULK	2PF 959 570-117 – With Nylon (PA12) Lens	PACK OF 4

Other specifications as per Part No.2054.

### **DuraLED® Front End Outline Lamps**

Amber ultra high impact resistant front end outline (FEOL) LED lamp for trailers featuring nylon (PA12) lens on 2051GMD and nylon housing. Optic appears clear until illuminated.

















2307	2BA 959 560-431		
2307BULK	2TM 959 560-517	PACK OF 4	
2307DT	2JA 959 560-481 – 250mm cable with DT		
2307GMD	2TM 959 560-101 – With Nylon (PA12) Lens		
2307GMDBULK	2TM 959 560-117 – With Nylon (PA12) Lens	PACK OF 4	

Other specifications as per Part No. 2054.

### DuraLED® Rear Position/ End Outline Lamps

Red ultra high impact resistant rear end outline (REOL) or rear position LED lamp featuring nylon (PA12) lens on 2307GMD and nylon housing. Optic appears clear until illuminated.









### **DuraLED® Heavy Duty Side Marker** Lamp with DT Connector

### - Red/Amber

Heavy duty red/amber LED side marker lamp with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.





Rear view showing DT connector that allows application of self-adhesive heat shrink.



4960-P Not included with lamp.

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14-29-	Com

2073	2PS 980 990-00		
2073BULK	2PS 980 990-007 PACK OF 8		
Mounting	Surface mount. Suitable for horizon	ntal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems		
Power Consumption	<1W		
Protection	Reverse polarity pr Fully sealed agains	rotection. st dust, high-pressure washing and temporar	y water immersion.
Spare Parts	4960-P	2 pole DT plug, wedge and 2 contacts.	
Lens Material	Nylon (PA12)		
Compliance	ADR 45/01	<u> </u>	

### **DuraLED® Heavy Duty Cab Marker** /Supplementary Side Direction Indicator Lamp (Cat. 5) with **DT Connector**

Heavy duty amber LED cab marker or supplementary side direction indicator lamp with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.













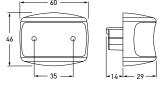
2076	2BP 980 990-101			
2076BULK	2BP 980 990-107 PACK OF 8			
Mounting	Surface mount. Suitable for horizor	ntal mounting.		
Voltage	Multivolt™ for optim	num brightness in 12 and 24 v	volt systems	
Power Consumption	<1W			
Protection	Reverse polarity pr Fully sealed agains	otection. t dust, high-pressure washin	g and tempora	ry water immersion.
Spare Parts	4960-P	2 pole DT plug, wedge and	2 contacts.	
Lens Material	Nylon (PA12)			
Compliance	ADR 45/01	ADR 6/00: Cat 5	<u> </u>	











2074	2PF 980 990-201	
2074BULK	2PF 980 990-207	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary	ry water immersion.
Spare Parts	4960-P 2 pole DT plug, wedge and 2 contacts.	
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00 💩	

# DuraLED® Heavy Duty Front Position /End Outline Lamp with DT Connector

Heavy duty white front position or end outline LED lamp (FEOL) with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.















2071	2PF 980 990-401	1			
2071BULK	2PF 980 990-407 PACK 0F 8				
Mounting	Surface mount. Suitable for horizon	ntal mounting.			
Voltage	Multivolt™ for optim	num brightness in 12 and 24 volt systems			
Power Consumption	<1W				
Protection	Reverse polarity pr Fully sealed agains	rotection. st dust, high-pressure washing and temporar	y water immersion.		
Spare Parts	4960-P	2 pole DT plug, wedge and 2 contacts.			
Lens Material	Nylon (PA12)				
Compliance	ADR 49/00	<u></u>			

### DuraLED® Heavy Duty Front End Outline Lamp with DT Connector

Heavy duty amber front end outline LED lamp (FEOL) for trailers with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.















2312	2XA 980 990-601		
2312BULK	2XA 980 990-607		PACK OF 8
Mounting	Surface mount. Suitable for horizontal mou	ınting.	
Voltage	Multivolt™ for optimum bri	ghtness in 12 and 24 volt systems	
Power Consumption	<1W		
Protection	Reverse polarity protection Fully sealed against dust, h	igh-pressure washing and temporar	y water immersion.
Spare Parts	4960-P 2 pole	DT plug, wedge and 2 contacts.	
Lens Material	Nylon (PA12)		
Compliance	ADR 49/00 💩		

### DuraLED® Heavy Duty Rear Position /End Outline Lamp with DT Connector

Heavy duty red rear position or end outline LED lamp (REOL) with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.







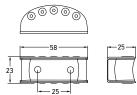
### DuraLED® Heavy Duty Side Marker Lamp – Red/Amber

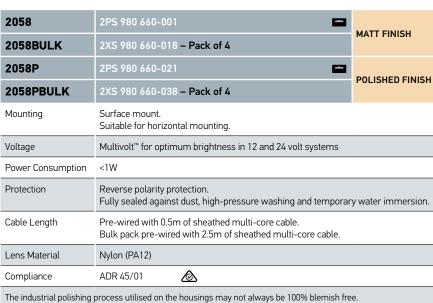
Heavy duty red/amber LED side marker lamp with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.











### DuraLED® Heavy Duty Cab Marker /Supplementary Side Direction Indicator Lamps (Cat. 5)

Heavy duty LED cab marker or supplementary side direction indicator lamp with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.











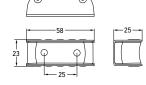
2027	2BP 980 660-101	MATT FINISH				
2027BULK	2BP 980 660-118 – Pack of 4	MAITFINISH				
2027P	2BP 980 660-121	POLISHED FINISH				
2027PBULK	2BP 980 660-138 – Pack of 4	POLISHED FINISH				
Mounting	Surface mount. Suitable for horizontal mounting.					
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems					
Power Consumption	<1W					
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporar	ry water immersion.				
		ry water immersion.				
Protection	Fully sealed against dust, high-pressure washing and temporar Pre-wired with 0.5m of sheathed multi-core cable.	ry water immersion.				
Protection  Cable Length	Fully sealed against dust, high-pressure washing and temporar Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	ry water immersion.				











2061	2PF 980 660-201				
2061BULK	2PF 980 660-218 – Pack of 4	MATT FINISH			
2061P	2PF 980 660-221				
2061PBULK	2PF 980 660-238 – Pack of 4	POLISHED FINISH			
Mounting	Surface mount. Suitable for horizontal mounting.				
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems				
	4144				
Power Consumption	<1W				
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporar	y water immersion.			
	Reverse polarity protection.	ry water immersion.			
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporar Pre-wired with 0.5m of sheathed multi-core cable.	y water immersion.			
Protection  Cable Length	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporar Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	y water immersion.			

# DuraLED® Heavy Duty Front Position/End Outline Lamps

Heavy duty white front position/end outline LED lamp (FEOL) with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.















2062	2PF 980 660-301	MATT FINISH
2062BULK	2PF 980 660-318 – Pack of 4	MAII FINISH
2062P	2PF 980 660-321	POLISHED
2062PBULK	2PF 980 660-338 – Pack of 4	FINISH

Other specifications as per Part No. 2061.

### DuraLED® Heavy Duty Front End Outline Lamps

Heavy duty amber front end outline LED lamp (FEOL) for trailers with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.















2311	2XS 980 660-401	MATT FINISH
2311P	2XS 980 660-421	POLISHED FINISH

Other specifications as per Part No. 2061.

# DuraLED® Heavy Duty Rear Position/End Outline Lamps

Heavy duty red rear position/end outline LED lamp (REOL) with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

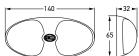


### **DuraLED® Supplementary Side** Direction Indicator Lamp (Cat. 5)

LED supplementary side direction indicator featuring amber impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility.







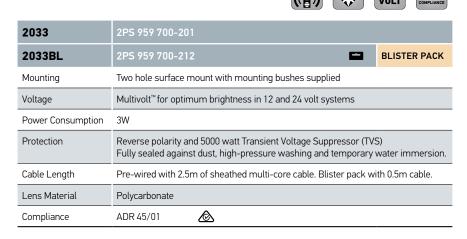
2031	2BM 959 700-011
2031BL	2BM 959 700-031 BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems
Power Consumption	3W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Blister pack with 0.5m cable
Projected Luminous Area	51cm <sup>2</sup>
Lens Material	Polycarbonate
Compliance	ADR 6/00: Cat 5

### DuraLED® Side Marker Lamp with Clear Lens

LED side marker featuring clear impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility. Optic appears clear until illuminated.







### **DuraLED® Rear Position** /End Outline Lamp

LED rear position/rear end outline lamp featuring red impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility.







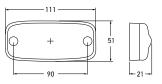




2309	2BA 959 700-301				
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.				
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems				
Power Consumption	3W				
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.				
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable				
Spare Part	9NH959028017 Screw boss kit				
Lens Material	Polycarbonate				
Compliance	ADR 49/00 💩				







### LED Side Marker Lamps – Amber

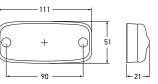
LED side marker with inbuilt amber retro reflector. Bridge circuit for protection against polarity reversal.



2047	2PS 963 639-002		12 VOLT DC				
2048	2PS 963 639-012		24 VOLT DC				
Power Consumption	.2. 20						
Protection	Fully sealed agains	Fully sealed against dust, high-pressure washing/steam jet cleaning					
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable						
Compliance	ADR 74/00: Cat. SM	11 ADR 47/00	£24 5881	ECE R3,	/02 ECE R7/02		

# ADR COMPLIANCE





			,	90	i≠ 21 →		
2305	2TM 963 639	2TM 963 639-301					
2306	2TM 963 639	2TM 963 639-311					
Power Consumption	12V DC 24V DC						
Protection	Fully sealed a	Fully sealed against dust, high-pressure washing/steam jet cleaning					
Cable Length	Pre-wired with 5m of sheathed multi-core cable						
Compliance	ADR 47/00	ADR 49/00	E24 5881	ECE R3/02	ECE R7/02		

### LED Rear Position Lamps - Red

LED rear position lamp with inbuilt red retro reflector. Bridge circuit for protection against polarity reversal.

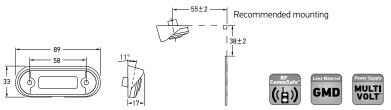


# DuraLED® Flush Mount Licence Plate Insert

White DuraLED® licence plate insert featuring a low profile of only 17mm and an ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Two inserts per licence plate are required for ADR compliance. Can be mounted either above or beside the licence plate. Optic appears clear until illuminated.







	[-17-]		u				
2560	2KA 980 869-00	1					
2560BULK	2KA 980 869-02	27				PACK OF	16
Mounting	Surface mount						
Voltage	Multivolt™ for optin	mum bright	ness in 12 a	and 24 volt s	systems		
Power Consumption	0.5W						_
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high pressure/steam jet cleaning)						
Cable Length	Pre-wired with 0.5m of multi-core cable. Bulk pack pre-wired with 2.5m of multi-core cable.						
Spare Parts	9.2310.09-BULK 8HG958029001			ew caps (Pa ount bracke			
Lens Material	Nylon (PA12)						
Compliance	ADR 48/00	<u> </u>					



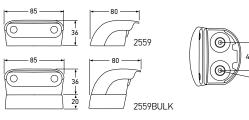
### LED Licence Plate Lamp

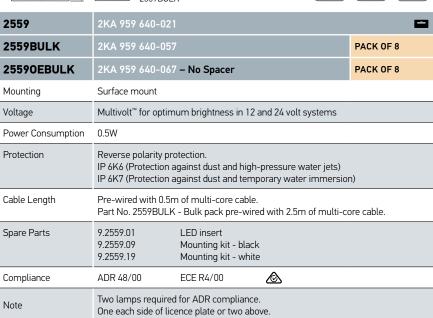
White LED licence plate lamp. Bulk version includes 20mm mounting spacer. Two lamps required for ADR compliance.











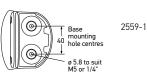
Base

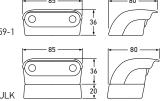
mounting hole centres

**ADR** 









### LED Licence Plate Lamp

White LED licence plate lamp. Bulk version includes 20mm mounting spacer. One lamp required for ADR compliance.









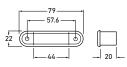
# 2559 -1BULK

2559-1	2KA 959 640-301		=	
2559-1BULK	2KA 959 640-327		PACK OF 8	
2KA 959 640-357	No Spacer		PACK OF 12	
2559-1DT	2KA 959 640-381		DT CONNECTOR	
Mounting	Surface mount			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Protection	Reverse polarity protection.  IP 6K6 (Protection against dust and high-pressure water jets)  IP 6K7 (Protection against dust and temporary water immersion)			
Cable Length	Pre-wired with 0.5m Bulk pack pre-wired	of multi-core cable. with 2.5m of multi-core cable.		
Spare Parts	9.2559.02 9.2559.09	Mounting spacer - black LED insert Mounting kit - black Mounting kit - white		
Compliance	ADR 48/00	ECE R4/00		
Note	One lamp to the side	of the licence plate is required for ADR co	ompliance.	









### LED Licence Plate Lamp Insert

LED insert to suit LED licence plate Lamp, Part No. 2559.



9.2559.01	2KA 959 640-121
Mounting	Flush Mount (gasket and screw caps included)
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems
Power Consumption	0.5W
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of cable.
Compliance	ADR 48/00









9.2559.02	2KA 959 640-131
Mounting	Flush Mount (gasket and screw caps included)
<u> </u>	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems
Power Consumption	0.5W
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of cable
Compliance	ADR 48/00

### LED Licence Plate Lamp Insert

LED insert to suit LED licence plate Lamp, Part No. 2559-1.





## **HELLA LED LAMPS – QUALITY WITH PERFORMANCE**

Electromagnetic Compatibility (EMC) is an increasingly relevant safety concern for many emergency, mining and industrial applications. As electronic devices such as LED lamps become more common, so does the risk of unintended electromagnetic interference (EMI) from inferior lamps that can have adverse effects on radios and other communication equipment.

HELLA Lamps marketed as RFCommSafe™ are designed to go well beyond the regulatory requirements as defined in international standards such as EN 55015, CISPR 15, CISPR 25 or relevant UNECE R10 Standards.

HELLA Australia Pty Ltd HELLA Customer Service: 1800 061 729 info.au@hella.com hella.com.au





 $RFCommSafe^{^{\mathrm{TM}}}\ products\ are\ specified$  by the New Zealand Fire Service













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	100

2414	2VP 006 040-112			LEFT HAND SIDE
2415	2SK 905 289-001	2SK 905 289-001		
Mounting	Surface mount. Suitable for horizontal moun	Surface mount. Suitable for horizontal mounting only.		
Voltage	Globes to be ordered separately			
Globes to Suit	Stop: Rear position: Rear direction indicator: Reverse:	12V R1221 G1210 R1221 R1221	<b>24V</b> R2421 G2410 R2421 R2421	
Spare Parts	9.2414.01 9.2415.01	Lens to su		
Compliance	ADR 1/00	ADR 6/00:	Cat 2a	ADR 49/00

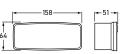
### Ford Type Stop/Rear Position/ Rear Direction Indicator/Reversing Lamps

Suitable for insulated earth circuits.



2414 - LEFT HAND SIDE





2419	2SD 003 184-032	2SD 003 184-032			
2420	2SE 003 184-102 - With Li	2SE 003 184-102 – With Licence Plate Lamp			
Mounting	Surface mount	Surface mount			
Voltage	Globes to be ordered separatel	Globes to be ordered separately			
Globes to Suit	Stop: Rear position/Licence plate: Rear direction indicator:	12V (Bayonet base) R1221 G1210 R1221	R2	V (Bayonet base) 421 410 421	
Spare Parts	9.2419.01 9.2420.01	Lens to suit 2419 Lens to suit 2420			
Compliance	ADR 6/00: Cat 2a	ADR 48/00		ADR 49/00	

### Stop/Rear Position/Rear Direction **Indicator Lamps**

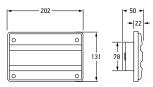
Right-hand-side version includes licence plate lamp.

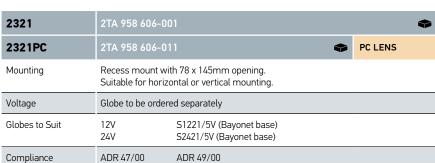


### Designline Stop/Rear Position Lamps with Retro Reflector

Single globe holder. Suitable for insulated earth circuits. Reflector area 35cm<sup>2</sup>.



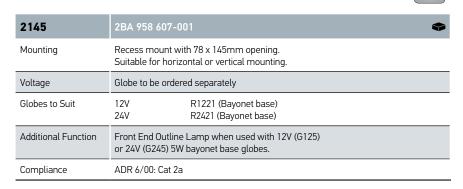




# Designline Rear Direction Indicator Lamps

Single globe holder. Suitable for insulated earth circuits.

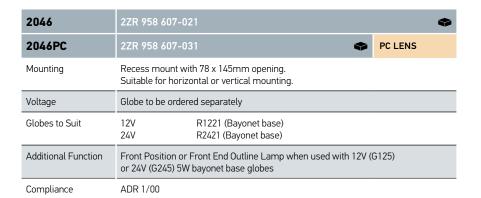




### **Designline Reversing Lamps**

Single globe holder. Suitable for insulated earth circuits.



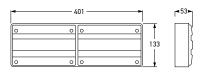


SPARE PARTS FOR DESIGNLINE RECESS MOUNT LAMPS					
9.2320.01 9.2321PC.01 9.2144.01 9.2145PC.01 9.2041.01 9.2046PC.01	Red lens Red Polycarbonate lens Amber lens Amber Polycarbonate lens Clear lens Clear Polycarbonate lens	9.2043.05 9.2041.08 9.2320.08	Lens or base gasket Single contact globe holder (Includes 12V Globe) Double contact globe holder (Includes 12V Globe)		









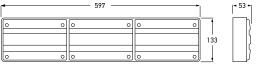
Designline Stop/Rear Position
/Rear Direction Indicator Lamp
with Retro Reflector

Suitable for insulated earth circuits.



2422	2VA 958 562-001			12 VOLT
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.			
Globes to Suit	Stop/rear position: Rear direction indicator:	<b>12V (Bayonet base)</b> S1221/5V R1221	<b>24V (Bayonet b</b> S2421/5V R2421	pase)
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00	





## Designline Stop/Rear Position /Rear Direction Indicator Lamp with Retro Reflector

Suitable for insulated earth circuits.



2423	2VA 958 616-021			
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.			
Voltage	Globes to be ordered separately			
Globes to Suit	Stop/rear position: Rear direction indicator:	12V (Bayonet base) 2 x S1221/5V R1221	24V (Bayonet base) 2 x S2421/5V R2421	
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00	

# ADR

2424	2VA 958 616-031				
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.				
Voltage	Globes to be ordered separately				
Globes to Suit	Stop/rear position: Rear direction indicator: Reversing:	12V (Bayonet base S1221/5V R1221 R1221	24V (Bayonet I S2421/5V R2421 R2421	base)	
Compliance	ADR 1/00 ADR	6/00: Cat 2a	ADR 47/00	ADR 49/00	

### Designline Stop/Rear Position /Rear Direction Indicator/Reversing Lamp with Retro Reflector

Suitable for insulated earth circuits.



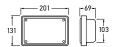
SPARE PARTS FUR D	ESIGNLINE S	SURFACE MI	JUNI LAMPS

9.2320.01	Red lens	9.2041.09	Single housing
9.2321PC.01	Red Polycarbonate lens	9.2041.09BULK	Single housing (pack of 10)
9.2144.01	Amber lens	9.2422.09	Double housing
9.2145PC.01	Amber Polycarbonate lens	9.2422.09BULK	Double housing (pack of 10)
9.2041.01	Clear lens	9.2423.09	Triple housing
9.2046PC.01	Clear Polycarbonate lens	9BG 958 338-001	Triple housing with cable grommet exit
9.2043.05	Lens or base gasket	9BG 958 338-011	Triple housing to suit M16 conduit gland
9.2041.08	Single contact globe holder (Includes 12V Globe)	9BG 958 338-021	Triple housing to suit flange mount DT connector
9.2320.08	Double contact globe holder (Includes 12V Globe)	9.2423.06	Installation pack

# Jumbo Stop/Rear Position Lamp with Retro Reflector

Single globe holder. Suitable for insulated earth circuits.









2319	2TA 910 664-021		12 VOLT
Mounting	Recess mount with 103 x 171mm opening		
Globes to Suit	12V S1221/5V (Bayonet base) 24V S2421/5V (Bayonet base)		
Spare Part	9.2319.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)	
Compliance	ADR 47/00	ADR 49/00	

# Jumbo Rear Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.



2143	2BA 910 663-08		12 VOLT	
Mounting	Recess mount with	103 x 171mm opening		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)		
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.			
Spare Part	9.2143.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)		
Compliance	ADR 6/00: Cat 2a			

### Jumbo Reversing Lamp

Single globe holder. Suitable for insulated earth circuits.





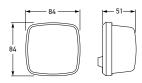




Compliance

ADR 1/00





### Reversing Lamp

Single globe holder.



1405	2ZR 003 014-091			
Mounting	Surface mount	Surface mount		
Voltage	Globe to be ordere	Globe to be ordered separately		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)		
Spare Part	9.1405.01	Clear lens		
Compliance	ADR 1/00			

### Front Position/End Outline Lamp

Single globe holder.



ADR COMPLIANCE

2064	2PF 003 014-071		
Mounting	Surface mount		
Voltage	Globe to be ordered separately		
Globes to Suit	<b>6V</b> L65	<b>12V</b> L125	<b>24V</b> L245
Compliance	ADR 49/00		

### Rear Position/Outline Lamp

Single globe holder.



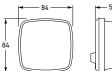


2325	2SA 003 014-051			
Mounting	Surface mount	Surface mount		
Voltage	Globe to be ordered separately			
Globes to Suit	<b>6V</b> L65	<b>12V</b> L125	<b>24V</b> L245	
Spare Part	9.2325.01	Lens		
Compliance	ADR 49/00			

### Front Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.









2148	2BA 003 014-111	-	
Mounting	Surface mount		
Voltage	Globe to be ordered separately		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes		
Spare Part	9.2148.01	Amber lens	
Compliance	ADR 6/00: Cat 1		

### Stop/Rear Position/Licence Plate Lamp

Double globe holder.





2384	2ST 003 014-143				
Mounting	Surface mount	Surface mount			
Voltage	Globes to be ordered separately				
Globes to Suit	Stop: Rear position/Licer	nce plate:	12V R1221 (Bayonet base) L125	<b>24V</b> R2421 (Bayonet base) L245	
Spare Part	9.2384.01	Red lens	5		
Compliance	ADR 48/00	ADR 49/	′00		

### Rear Direction Indicator Lamp

Single globe holder.





2147	2BA 003 014-011	
Mounting	Surface mount	
Voltage	Globe to be ordered	separately
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Front End Outline La or 24V (G245) 5W ba	mp when used with 12V (G125) yonet base globes
Spare Part	9.2147.01	Amber lens
Compliance	ADR 6/00: Cat 2a	





12 VOLT

### Front Direction Indicator Lamp (Cat. 1)

Single-sided front direction indicator. Black backing plate.

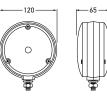


COMPLIANCE GLOBE INC		
2128	2BA 900 763-301	
Mounting	Single bolt mount	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Globes to Suit	.=.	

Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used Additional Function 2.9800.09 Amber lens 2.9800.08 Clear lens 2.9801.01 Red lens Spare Part 2.9803.09 Red lens with inbuilt retro reflector 2.9800.091 Blue lens 9.2397.40 Lens gasket ADR 6/00: Cat 1 Compliance







Front Direction Indicator /Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Double-sided direction indicator lamp.



2127	2BA 900 763-29		12 VOLT
Mounting	Single bolt mount		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Supplementary side or 24V (G245) Globe	e direction indicator lamp where 12V (G125) es are used	
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	





2129	2BA 900 763-311		12 VOLT
Mounting	Single bolt mount		
Globes to Suit	12V 24V	FD1221 (Bayonet base) FD2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used		
Spare Part	2.9800.09         Amber lens           2.9800.08         Clear lens           2.9801.01         Red lens           2.9803.09         Red lens with inbuilt retro reflector           2.9800.091         Blue lens           9.2397.40         Lens gasket		
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	

### Front Direction Indicator /Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Double-sided direction indicator lamp with double-contact globe holder. Suitable for insulated earth circuits.



### Front Position/Front End Outline Lamp – White

Fitted with polycarbonate lens and single globe holder.



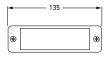






2066	2PF 006 679-001		
Mounting	Surface mount		
Voltage	Globe to be ordered separately		
Globes to Suit	12V G1210 (Bayonet base) 24V G2410 (Bayonet base)		
Compliance	ADR 49/00		







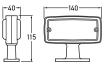
# Front Direction Indicator Lamp (Cat. 1)

Universal flush mount front direction indicator lamp ideal for coach or bull-bar applications.



2101	2BA 002 939-171		
Mounting	Flush mount. Suitable for left and right hand mounting.		
Voltage	Globe to be ordered separately		
Globes to Suit	12V R1221 24V R2421		
Compliance	ADR 6/00: Cat 1		





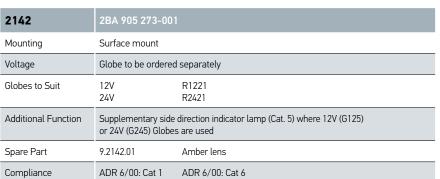
### Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Double-sided front direction indicator lamp. Suitable for insulated earth circuits.



2126	2BA 905 115-001			
Mounting	Pedestal mount			
Voltage	Globe to be ordered separately			
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)		
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used			
Spare Part	9.2126.01	Amber lens		
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5		





### Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 6)

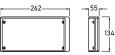
Single globe holder.



### Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Wrap-around front direction indicator lamp. Suitable for insulated earth circuits.







2150	2BA 005 603-001			
Mounting	Flush mount			
Voltage	Globe to be ordered separately			
Globes to Suit	12V R1221 (Bayonet base) 24V R2421 (Bayonet base)			
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.			
Compliance	ADR 6/00: Cat 1 ADR 6/00: Cat 5			

### Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Curved front direction indicator with colourless front lens and internal amber filter producing the required amber light when activated. Includes separate front position lamp function. Supplied complete with protective rubber boot.









2158	2BE 004 119-021			
Mounting	Flush mount			
Voltage	Globes to be ordered separately			
Globes to Suit	Front position: Direction indicator:	12V W125 R1221	<b>24V</b> W245 R2421	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	ADR 49/00	

### LED Auxiliary Side Indicator (Cat. 6)

LED side indicator lamp approved for heavy vehicles and buses/coaches, sealed against dust and water for many years of trouble-free usage. Optic appears clear until illuminated.











2BM 011 788-03	1				12 VOLT DC
2BM 011 788-02	1				24 VOLT DC
Mounting	Horizontal surface mount				
Power Consumption	12V DC 24V DC	4.8W 3.5W			



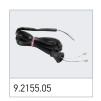




### Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction lamp suitable for either left or right hand mounting.





2155	2ВМ 008 355-002	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	RY1221 (Bayonet base) R2421 (Bayonet base)
Spare Part	9.2155.05	Wiring harness set - with sealing grommet
Compliance	ADR 6/00: Cat 6	
Arrow on lens must face direction of travel.		

#### ADR COMPLIANCE

2155CLR	2BM 008 355-012	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	RY1221 (Bayonet base) RY2421LL (Bayonet base)
Spare Part	9.2155.05	Wiring harness set - with sealing grommet
Compliance	ADR 6/00: Cat 6	
Arrow on lens must face	e direction of travel.	

### Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction lamp suitable for either left or right hand mounting. Optic appears clear until illuminated.











2153	2BM 006 692-012	LEFT HAND SIDE
2154	2BM 006 692-022	RIGHT HAND SIDE
Mounting	Surface mount	
Voltage	Globe to be ordered separately	
Globes to Suit	12V R1221 (Bayonet base) 24V R2421 (Bayonet base)	
Compliance	ADR 6/00: Cat 6	

Arrow on lens must face direction of travel.

Replacing ADR 6/00: Cat. 5 Supp. Side Direction Indicator Lamps with ADR 6/00: Cat. 6 Supp. Side Direction Indicator Lamps is permitted in all instances. Arrow on lens must face direction of travel.

### Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction indicator lamp with rubber base. Suitable for insulated earth circuits.



### Reversing Lamp - Chrome

Robust chrome housing.

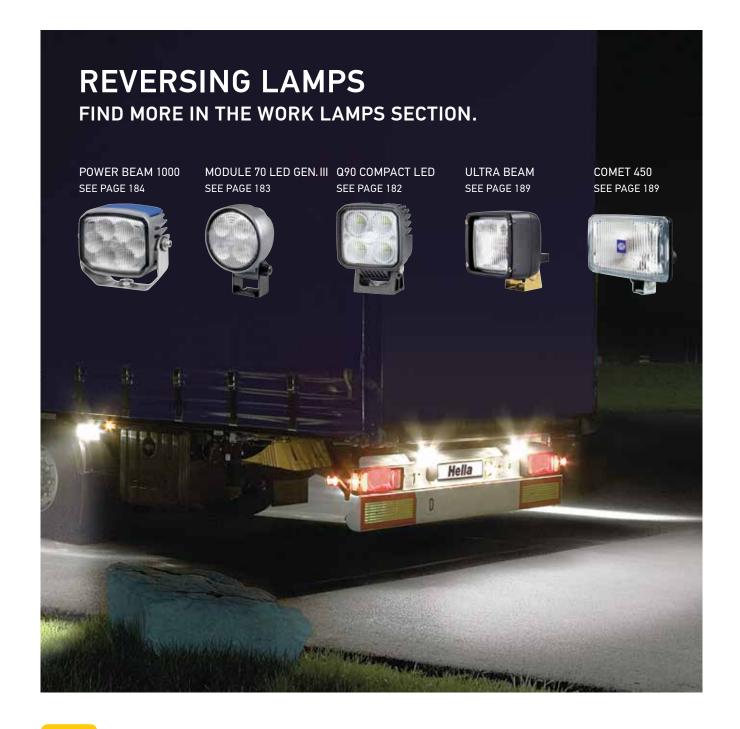






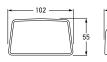


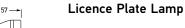
1403	2ZR 003 030-171	
Mounting	Bracket with fixing screw for mounting on vertical or horizontal surfaces	
Voltage	Globe to be ordered separately	
Globes to Suit	12V R1221 (Bayonet base) 24V R2421 (Bayonet base)	
Compliance	ADR 1/00	





















Licence Plate Lamp



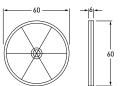
2555	2KA 001 389-101			
Mounting	Surface mount. Two bolt mount.			
Voltage	Globe to ordered sep	arately		
Globes to Suit	<b>6V</b> L65	<b>12V</b> L125	<b>24V</b> L245	
Compliance	ADR 48/00			
Two lamps required for ADR compliance				

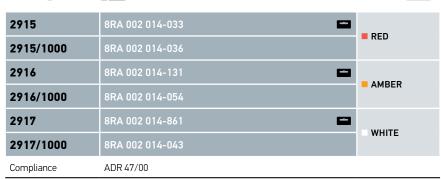
#### **Retro Reflectors**

60mm diameter complete with mounting screw, 22cm<sup>2</sup>.





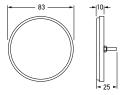


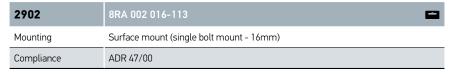


#### Retro Reflector - Red

83mm diameter red acrylic retro reflector with black rim, 48cm<sup>2</sup>.



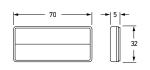




### **Retro Reflectors**

 $70 \times 31.5 \text{mm}$  self adhesive,  $18 \text{cm}^2$ .





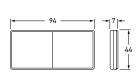


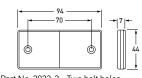
2919

2919	8RA 004 412-002	
2919BULK	8RA 004 412-008 - Pack of 20	<b>AMBER</b>
2919/200	8RA 004 412-006 - Pack of 200	
2920	8RA 004 412-022	■ RED
2920/200	8RA 004 412-021 - Pack of 200	■ KED
2921	8RA 004 412-012	WHITE
2921/200	8RA 004 412-011 – Pack of 200	WHILE
Compliance	ADR 47/00	

2920	2921







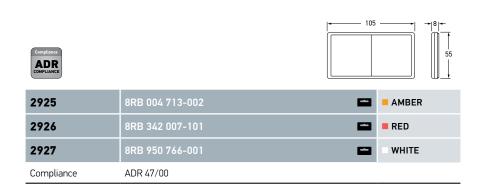
	Part No. 2923-2 -	- Two bolt holes
2922	8RA 003 326-043	
2922BULK	8RA 003 326-044 - Pack of 20	AMBER
2922-2/200	8RA 003 326-017 - Two bolt holes - Pack of 200	
2923	8RA 003 326-033	■ RED
2923-2BULK	8RA 003 326-001 - Two bolt holes - Pack of 20	■ RED
2924	8RA 003 326-053	WHITE
2924-2BULK	8RA 003 326-021 - Two bolt holes - Pack of 20	WHILE
Compliance	ADR 47/00	

#### **Retro Reflectors**

94 x 44mm self adhesive (except two bolt hole version), 33cm<sup>2</sup>.







### **Retro Reflectors**

105 x 55mm self adhesive, 50cm<sup>2</sup>.





### **DuraLED® Accessories**

Spare screw caps or screw bosses for the DuraLED® lamp range. Two screw caps and two screw bosses are required per lamp.





	A			
9.2330.10	9.2330.11	9.2330.13	9.2330.14	9.2330.16



SCREW CAPS - DURALED® COMBI-S/COMBI-R		
9.2378.10BULK	9HD 980 712-037 - Pack of 4	■ RED
9.2378.11BULK	9HD 980 712-017 - Pack of 4	WHITE
9.2378.14BULK	9HD 980 712-047 - Pack of 4	YELLOW
9.2378.15BULK	9HD 980 712-007 - Pack of 4	■ BLACK

9.2378.11-BULK	9.2378.14-BULK	9.2378.15-BULK



SCREW CAP AND BO	OSS SET (2 OF EACH KIND)
9.2330.08	9HD 958 421-141 - Black DuraLED® Cap and Boss - Pack of 2
9.2378.09	9HD 980 712-801 - Black DuraLED® Combi-S Cap and Boss - Pack of 2



SCREW BOSS	
9.2330.17	9NH 959 059-008 - Pack of 4



MOUNTING SPACERS – DURALED® COMBI		
98071900	8HG 980 719-001	■ BLACK
98071901	8HG 980 719-011	WHITE

Mounting spacer allows lamps to be surface mounted with the cable exiting any side of the spacer, or through the centre.

#### SHROUDS - DURALED® SURFACE MOUNT 9.2053.08 9BG 910 274-001 - Nylon Retrofit Style **■** BLACK 9.2053.08BULK 9BG 959 565-308 - Nylon Retrofit Style - Pack of 4 **■** BLACK 9.2053.10BULK 8HG 959 565-038 - Retrofit Style - Pack of 4 ■ RED 9.2053.11BULK 8HG 959 565-018 - Retrofit Style - Pack of 4 WHITE 9.2053.12BULK 8HG 959 565-068 - Retrofit Style - Pack of 4 ■ BLUE 9.2053.13BULK 8HG 959 565-058 - Retrofit Style - Pack of 4 ■ GREEN 9BG 959 565-048 - Retrofit Style - Pack of 4 9.2053.14BULK YELLOW 9.2053.15BULK 9BG 959 565-078 - Retrofit Style - Pack of 4 AMBER ■ CHROME 9.2053.20BULK 9BG 959 565-408 - Retrofit Style - Pack of 4 PLATED

Retrofit style allows replacement of shroud without cutting cable of lamp.

# 9.2053.10BULK 9.2053.12BULK 9.2053.13BULK 9.2053.14BULK 9.2053.15BULK

#### **DuraLED® Marker Lamp Accessories**

Spare mounting shrouds for the surface mount marker and surface mount courtesy lamp range. One mounting shroud is required per lamp.

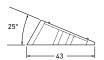




9.2053.11BULK



9.2053.20BULK



ANGLE MOUNT - DURALED® SURFACE MOUNT		
9.2053.07	8HG 910 273-001	■ BLACK



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31 ↓		)

RIMS - DURALED® FLUSH MOUNT		
95968500	9AB 959 685-002 - 316 Stainless Steel	■ POLISHED
95968506	9AB 959 685-062 - 316 Stainless Steel	SATIN CHROME PLATED
95968600	9AB 959 686-001	■ BLACK
95968601	9AB 959 686-011	WHITE

To suit wide marker and signal lamps with 29mm wide rim. Does not fit narrow rim lamps.





### **DuraLED® Marker Lamp Accessories**





SCREW CAPS - DURALED® FLUSH MOUNT		
9.2310.09BULK	9HD 980 858-007 - Pack of 4	■ BLACK
9.2310.10BULK	9HD 980 858-037 - Pack of 4	■ RED
9.2310.11BULK	9HD 980 858-017 - Pack of 4	WHITE
9.2310.12BULK	9HD 980 858-067 - Pack of 4	■ BLUE
9.2310.13BULK	9HD 980 858-057 - Pack of 4	■ GREEN
9.2310.16BULK	9HD 980 858-027 - Pack of 4	■ GREY

Pack sizes of 50 available upon request.

9.2310.10-BULK	9.2310.12-BULK	9.2310.13-BULK	9.2310.16-BULK

### DuraLED® DT Marker and Signal Lamp Accessories



DT PLUG, WEDGE AND CONTACTS		
4960-P	8JA 959 736-811	2 POLE
4963-P	8JA 959 736-801	6 POLE



### EuroLED® Accessories

Spare covers or screw bosses for the EuroLED® range of lamps. One cover and two screw bosses are required per lamp.





COVERS		
9HD 959 027-007	Single	■ BLACK
9HD 959 027-017	Single	OFF WHITE

SCREW BOSS		
9NH 959 028-017	Pack of 2	OFF WHITE

MOUNTING SPACER		
8HG 959 952-002	Single	■ BLACK
8HG 959 952-012	Single	WHITE

## 9.2394.08 8HG 980 726-001 FRAME 9.2394.09 8HG 980 727-002 15MM SPACER

Mounting spacer allows lamps to be surface mounted with the cable exiting any side of the spacer or through the centre.

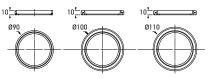
### LED Combination Trailer Lamp Accessories

To suit LED combination lamp Part No. 2394 and 2395.





.09 9.2394.08



98069600	9GD 980 696-002	90MM 0.D
98069640	9GD 980 696-402	100MM O.D
98069660	9GD 980 696-601	110MM O.D

### 83mm Round Lamps -Mounting Rings

Mounting rings to suit 83mm round lamp range. Allows retro-fitting of lamp into existing applications with mounting holes larger than a diameter of 83mm.



### MOUNTING GASKET BASE, SPACERS AND 1½" SCREWS

**9.2361.08** 9HD 980 768-801

Allows Jumbo-S lamps to be surface mounted.

#### Jumbo-S Accessories

Accessories for the Jumbo-S LED lamp range.



### SCREW CAPS AND 1" SCREWS

9.2361.09 9HD 980 767-801 - Set of 4

HOUSING - SINGLE, DOUBLE, TRIPLE MODULE & BULK PACKS		
9.2041.09	9BG 958 568-021 <b>- Single</b>	
9.2041.09BULK	9BG 958 568-027 - Pack of 10	
9.2422.09	9BG 958 559-011 - Double	
9.2422.09BULK	9BG 958 559-017 - Pack of 10	
9.2423.09	9BG 958 615-011 - Triple	
9BG 958 338-001	Triple with Cable Grommet Exit	
9BG 958 338-011	Triple to Suit M16 Conduit Gland	
9BG 958 338-021	Triple to Suit Flange Mount DT Connector	
9.2391.08	8HG 958 421-381 - Mounting clip and bolt set suits Jumbo-S triple (2430, 2431), 2391, 2392, triple housings 9BG 958 338-001/-011/-021	

### Designline/Jumbo-S/Jumbo Accessories

Housings for the Designline/Jumbo-S/ Jumbo lamp range.











### Licence Plate Lamp Accessories

Mounting kit for licence plate lamp Part No. 2559. Includes a housing, cover, screw bosses, screws and screw caps. One mounting kit is required per lamp.



9.2559.19

MOUNTING KIT		
9.2559.09	8HG 959 647-031 - Single	■ BLACK
9.2559.19	8HG 959 647-041 - Single	WHITE

Suits Part No. 2559, 2308, 2055 and all narrow rim LED courtesy lamps.
Part No. 9.2559.09 is included with every LED Licence Plate pack (display and bulk packs).

8	3

MOUNTING SPACER AND EXTENDED SCREW BOSSES		
9.2559.08	8HG 959 647-021	■ BLACK
Suits LED Licence Plate Lamp, Part No. 2559. Included in every LED Licence Plate Bulk Pack, Part No. 2559BULK.		



8HG 959 647-001

### LED LICENCE PLATE LAMP MOUNTING KIT 8HG 959 647-001 ■ BLACK

Mounting Kit including housing, cover, spacer and extended screw bosses for installation of LED licence plate lamps according to ADR requirements. One kit required per lamp.

### Surface Mount Strip Lamp -Screw Caps



SURFACE MOUNT STRIP LAMP SCREW CAPS		
9.1009.09	9HD 980 885-017 - Pack of 4	■ CHARCOAL
9.2652.09	9HD 980 885-007 - Pack of 4	WHITE
9.1009.10	9HD 980 885-107 - Pack of 4	CHROME PLATED

### Marker and Courtesy Lamp Gaskets

Gaskets for narrow rim LED courtesy lamps. Curved mount gasket (Part No. 9GD 959 515-207) is designed to suit 64mm (2.5") pipes. Flexibility allows this particular gasket to suit a variety of curve radii.



9GD 959 515-127

The same of

9GD 959 517-007

NARROW RIM (LAMP WIDTH 22MM)	
9GD 959 515-127 - Pack of 4	RUBBER
9GD 959 515-207 - Curved mount - Pack of 4	RUBBER



WIDE RIM (LAMP WIDTH 29MM)	
<b>9GD 959 517-007</b> - Pack of 4	CLOSE CELL FOAM

### Strip Lamp Gaskets

Gaskets for narrow and wide rim strip lamps.





WIDE RIM (LAMP WIDTH 33MM)	
<b>9GD 959 155-507</b> - Pack of 10	CLOSE CELL FOAM



SPARE PLASTIC CAPS	
9HD 959 182-027 - Pack of 20	■ RED
<b>9HD 959 182-017</b> - Pack of 20	AMBER
9HD 959 182-037 - Pack of 20	■ BLACK
To suit narrow and wide rim LED courtesy, marker and strip lamps.	

### **Plastic Screw Caps**

Two screw caps required per lamp.



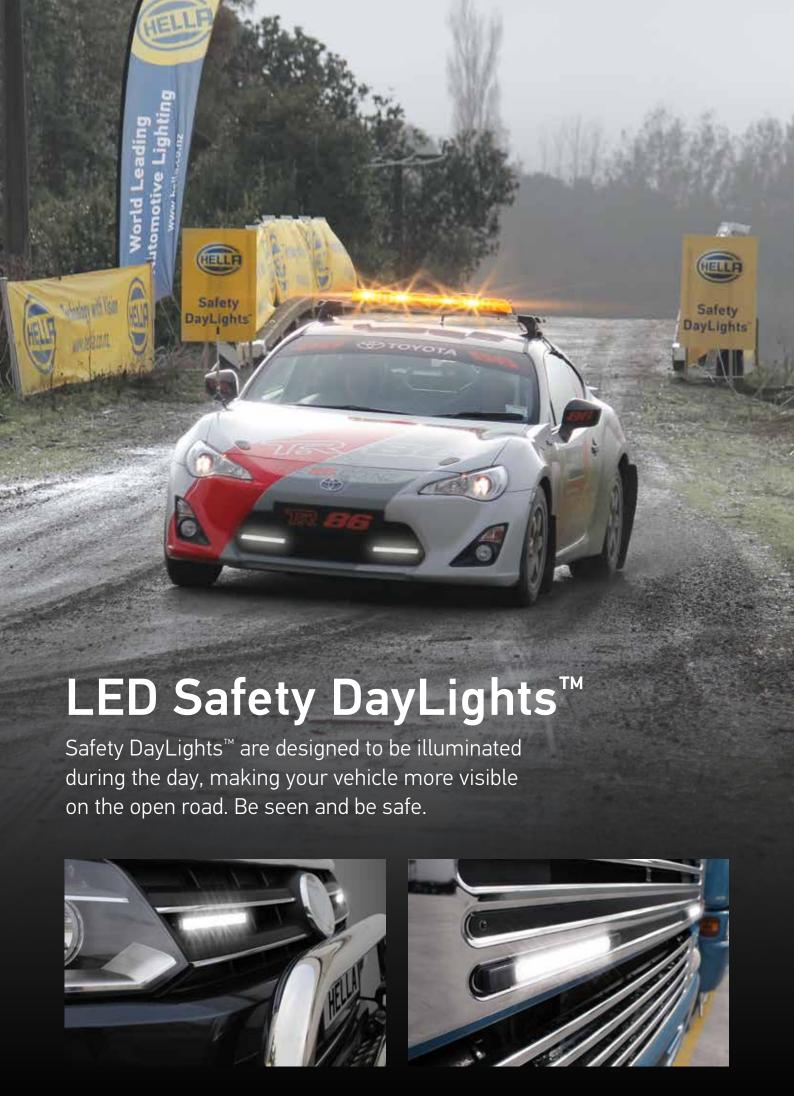
9HD 959 182-037

110MM ROUND - LENS GASKET

9.2397.40 9GD 905 850-001

### 110mm Round - Lens Gasket







# Contents

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### **HELLA LED SAFETY DAYLIGHTS**™ BE SAFE BE SEEN

Failure to see another road user in time (or at all) is a contributing factor in over 50% of all daytime accidents. For daytime intersection accidents this increases to as much as 80%.

Source: The Safety Effects of Daytime Running Lights, SWOV, 1997

#### Why Install HELLA Safety DayLights™?

You might ask yourself "can't I just switch on my headlamps?", since the use of dipped beam headlamps during daylight hours has long been promoted as a Road Safety Initiative around the country.

Dipped beam headlamps are designed to effectively light up the road in front of the vehicle during darkness, whilst causing as little glare as possible to oncoming traffic.



Hence during daytime, dipped beam headlamps 'waste' most of their light directed to the road in front of the vehicle but provide very little as a signal to other road users in bright daylight. Using your Dipped Beam Headlamps during daylight hours has only a marginal added safety effect.

Safety DayLights<sup>™</sup> on the other hand are designed to significantly enhance the conspicuity of your vehicle during daylight hours because precision optics direct all the light towards the other road users.

#### HELLA LED Safety DayLights™

Safety DayLights™ are forward facing signal lamps that significantly enhance the visibility of your vehicle during daylight hours to prevent vehicle crashes by 'accidental oversight'.

As road users we have all experienced the 'fright second' of a near miss by being overlooked by another car, van or truck.

Equally frightening is almost not noticing another vehicle approaching due to an inconspicuous vehicle colour, the low sun casting harsh shadows or sun strike. Any single one of these 'fright seconds' has the potential to end in a tragic outcome and become a number in the road toll statistics.

Safety DayLights™ are a "never forget" safety enhancement. They automatically switch ON when the ignition is switched ON and automatically switch OFF when the headlamps are turned ON in order not to dazzle other road users at night.







Low Beam Headlamps



HELLA LED Safety DayLights™

Low Beam Headlamps



Designed to light the road at night without causing glare to other road users.

HELLA LED Safety DayLights™



Designed to increase the visibility (conspicuity) of your vehicle during daylight hours.

### LED Safety DayLights™ Kit

#### - Easy-Fit

Forward Facing Signal Lamps, designed to be mounted on vehicles with flat fronts, or on motorbikes. The lamps are an Easy-Fit installation, usually requiring no extra parts. Once the wiring is complete and the bracket is fitted, the LED lamp easily clips into place and installation is complete.





27		pe to	ountederpendicular the vehicle kis	CommSafe* ((日)) Compliance ADR COMPLIANCE
5636	2PT 980 970-80	1		12 VOLT
5636BL	2PT 980 970-80	2 – (Blister Pack)	-	12 VOLI
5636-24V	2PT 980 970-85	1		24 VOLT
Mounting	Suitable for horizo	ntal mounting		
Power Consumption	2W			
Protection		against dust and ten	nporary water immersion igh-pressure/steam jet cl	
Cable Length	Pre-wired with 2.5	m of sheathed multi	-core cable	
Spare Parts	1013 1013-24V	Single lamp 12V Single lamp 24V		
Lens Material	High impact acrylic	2.		
Compliance	ADR 76/00	£24 5875	ECE R87/00	<u></u>
Kit Contents	5636/24V 2 x LED Safety Day 2 x Mounting brack 6 x Mounting screv 1 x Changeover rel 1 x Instruction she	kets vs ay	5636-BL 2 x LED Safety DayLight 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relatives	

1 x Instruction sheet

See page 92 for front position relay option.

### LED Safety DayLights™ Kit - 15°

A lens angle of 15 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high-impact acrylic lenses to protect against impact damage.





27 ( S S S S	5 Na g Na	CommSafe*	Certified  ECE CERTIFIED  Compliance  ADR COMPLIANCE		
5630	2PT 980 860-841		12 VOLT		
5630BL	2PT 980 860-842 - (Blister Pack)	-	12 VULI		
5630-24V	2PT 980 860-871		24 VOLT		
5630-24VBL	2PT 980 860-872 - (Blister Pack)	-	24 VULI		
Mounting	Suitable for horizontal mounting				
Power Consumption	2W				
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning).				
Cable Length	Pre-wired with 2.5m of sheathed multi-core	e cable			
Lens Material	High impact acrylic				
Compliance	ADR 76/00 (24) 5863 EC	CE R87/00 🙋	<u> </u>		
Kit Contents	2 x LED Safety DayLights™ 2 x Mounting brackets 2 x Mounting screws 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet 2 x	30-BL/24VBL  < LED Safety DayLights  < Mounting brackets  < Mounting screws  < Smart controller relat  < Terminal kit  < Instruction sheet			
See page 92 for front po	sition relay option.				

info.au@hella.com

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See page 92 for front position relay option.





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26   segar	9	174.6.2 S.M. 2 DOT 070.1

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5631	2PT 980 850-841		12 VOLT		
5631BL	2PT 980 850-842 <b>– (Blis</b> to	er Pack)	12 VULI		
5631-24V	2PT 980 850-871		24 VOLT		
Mounting	Suitable for horizontal moun	ting			
Power Consumption	2W				
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning).				
Cable Length	Pre-wired with 2.5m of shear	Pre-wired with 2.5m of sheathed multi-core cable			
Lens Material	High impact acrylic				
Compliance	ADR 76/00 ©24 586	32 ECE R87/00	<u>}</u>		
Kit Contents	5631/24V 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet	5631-BL 2 x LED Safety DayLight 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller rela 1 x Terminal kit 1 x Instruction sheet			

#### LED Safety DayLights™ Kit - 30°

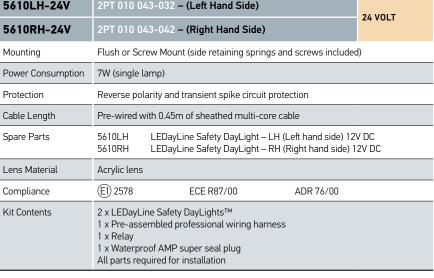
A lens angle of 30 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high-impact acrylic lenses to protect against impact damage.





### ADR





### LEDayLine Safety DayLights™

Universal LED Safety DayLight equipped with five high-performance LEDs and individual computer-calculated, faceted reflectors and clear, pattern-free acrylic lens.

Features distinct rod-shaped matrix design for innovative front-end styling and provides optimum light distribution for maximum visibility in road traffic during the day.

Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off. Also functions as a position light with dimmed light power (automatic switch over).



### LED Safety DayLights™ Kit - Recessed Mount

Recess Mount Strip Lamp, flush mounted for a professional finish. Features low power consumption, reverse polarity protection, and a durable Grilamid\* lens to protect against impact damage.

















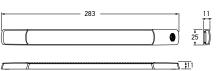
		20 26	((日)) GMD	CERTIFIED
5618	2PT 980 680-81	1		12 VOLT
5618-24V	2PT 980 680-85	2		24 VOLT
Mounting	Two hole recess m Suitable for horizo			
Power Consumption	2W			
Protection		against dust and ten	nporary water immersion gh-pressure/steam jet c	
Cable Length	Pre-wired with 2.5m of multi-core cable			
Spare Parts	1005 1005-24V	Single lamp 12V Single lamp 24V		
Lens Material	Nylon (PA12)			
Compliance	ADR 76/00	£24 0001	ECE R87/00	
Kit Contents	2 x LED Safety Day 4 x Screw caps an 1 x Changeover re 1 x Instruction she	d mounting screws lay		

### LED Safety DayLights™ Kit - Surface Mount

Surface Mount LED Safety DayLights<sup>TM</sup> designed to fit flat-fronted vehicles. Comes either as a single lamp, or as a kit. The lamp is ADR compliant and features a Grilamid<sup>®</sup> lens to protect against impact damage.















[		\$11	COMPLIANCE GMD	<b>))</b>
5619	2PT 980 880-801	- (Horizontal mount)	12 VOLT	
5619-24V	2PT 980 880-851	- (Horizontal mount)	24 VOLT	
5619V	2PT 980 880-901	- (Vertical mount)	12 VOLT	
5619V-24V	2PT 980 880-951	- (Vertical mount)	24 VOLT	
Power Consumption	3W			
Protection		otection. against dust and temporary n against dust and high-pre		
Cable Length	Pre-wired with 2.5r	m of sheathed multi-core c	able	
Spare Parts	1009 Single lamp 12V (Horizontal mount) 1009BL Single lamp 12V (Horizontal mount) Blister pack 1009-24V Single lamp 24V (Horizontal mount) 1009-24VBL Single lamp 24V (Horizontal mount) Blister pack 1009V Single lamp 12V (Vertical mount) 1009V-24V Single lamp 24V (Vertical mount) 9.2452.09 White screw caps (Pack of 4) 9.1009.09 Charcoal screw caps (Pack of 4) 9.1009.10 Chrome plated screw caps (Pack of 4)			
Lens Material	Nylon (PA12)			
Compliance	ADR 76/00	©24 5869 ECE	R87/00	
Kit Contents	2 x LED Safety Day 4 x Mounting screw 4 x Screw caps		1 x Changeover relay 1 x Instruction sheet	

See page 92 for front position relay option.

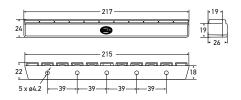
### **LED SAFETY DAYLIGHTS™** COMPACT MOUNT AND RECTANGULAR











2PT 980 680-111	12 VOLT		
2PT 980 680-611	24 VOLT		
Suitable for horizontal mounting			
2W			
Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Pre-wired with 2.5m of sheathed multi-core cable.			
Nylon (PA12)			
ADR 76/00			
	2PT 980 680-611  Suitable for horizontal mounting  2W  Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cle  Pre-wired with 2.5m of sheathed multi-core cable.  Nylon (PA12)		

### LED Safety DayLights™ - Compact Mount

Strip Lamp which clips into a separate mounting bracket for ease of installation. This lamp is ECE certified and is supplied with a mounting bracket and screws. The lens is made of durable Grilamid® to protect against impact damage and the lamps feature reverse polarity protection.



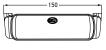


















VOLT	MPLIANCE	5617 / 5617 OE		56170ESS
5617	2PT 980 670-8	31		•
56170E	2PT 980 670-8	12		•
56170ESS	2PT 980 670-8	72		
Mounting	5617 / 56170E 56170ESS	Suitable for horizonta Upright or pendant. S		ing brackets included
Voltage	Multivolt <sup>™</sup> for op	timum brightness at inp	out voltages from 9 to	o 33 volts
Power Consumption	<2W each			
Protection	IP 6K7 (Protection	and transient spike circ n against dust and tem ion against dust and hiq	porary water immer	
Spare Part	1004	Single lamp (with (	).5m of multi-core ca	ble)
Cable Length	5617 5617-0E/0ESS			
Lens Material	Nylon (PA12)			
Compliance	ADR 76/00	<b>€</b> 24 0002	ECE R87/00	
Kit Contents	Part No. 5617 ki 2 x LED Safety D 1 x Professional and super seal c 4 x Mounting bra	ayLights™ wiring harness	2 x LED Safety Da sheathed multi-co 4 x Mounting brace (56170E)	/OESS kit contains: ayLights™ with 2.5m ore cable. ckets and fasteners nless Steel Brackets

### LED Safety DayLights™ Kit - Rectangular and Stainless Steel Bracket

Rectangular Shaped Ultra Light Lamps offering maximum visibility in road traffic during the day. Features lightweight housing, universal mounting bracket and ultra-durable Grilamid® nylon lens for extreme impact, UV and chemical resistance. Easy wiring requiring only 3 connections, earth (-), ignition (+) and position lamps (+).









Wiring harness and super seal connectors.

### LED Safety DayLights™ Kit - Round

Universal Round Safety DayLights™ equipped with 3 x high-performance LEDs and high-sheen metalled free-form (FF) reflectors for a superior signal pattern and maximum visibility to oncoming traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.











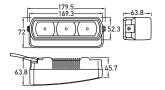


5607	2PT 009	2PT 009 599-802				
Mounting	Upright or	r Pendant. Universal mounting b	racket included			
Voltage	Multivolt™	for optimum brightness at inpu	it voltage from 9 to 33 vo	lts		
Power Consumption	12V 24V	(g				
Protection	Reverse p	polarity and transient spike circu	it protection			
Cable Length	Pre-wired	Pre-wired with 0.45m of sheathed multi-core cable				
Spare Parts	5607LH 5607RH	,				
Lens Material	Polycarbo	Polycarbonate				
Compliance	(E1) 2372	ECE R87/00	ADR 76/00	<b>&amp;</b>		
Kit Contents	1 x Pre-as	afety DayLights™ ssembled professional harness proof AMP plug				

### LED Safety DayLights™ Kit - Rectangular

Universal Rectangular Safety DayLights™ equipped with 3 x high-performance LEDs and high-sheen metallised free-form (FF) reflectors for a superior signal pattern and maximum visibility to oncoming traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.











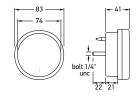
5608	2PT 009 496-802					
Mounting	Upright or	Pendant. Universal mounting br	acket included.			
Voltage	Multivolt™	for optimum brightness at input	voltage from 9 to 33 vo	lts		
Power Consumption	12V 24V	(g				
Protection	Reverse p	olarity and transient spike circuit	protection			
Cable Length	Pre-wired	Pre-wired with 0.45m of sheathed multi-core cable				
Spare Part	5608LRH	5608LRH Rectangular LED Safety DayLight				
Lens Material	Polycarbo	Polycarbonate				
Compliance	(E1) 2344	ECE R87/00	ADR 76/00	<b>&amp;</b>		
Kit Contents	1 x Pre-as	afety DayLights™ ssembled professional harness proof AMP plug				











1006	2PT 980 687-501	12 VOLT			
1007-24V	2PT 980 686-401 – (Includes Front Position Lamp)	24 VOLT			
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and wash	ner supplied.			
Power Consumption	Safety DayLights™: 4W Front position: 1W (Part No. 1007-24V only)				
Protection	Reverse polarity and transient spike circuit protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable				
Lens Material	Nylon (PA12)				
Compliance	ADR 49/00 (1007-24V) ADR 76/00 ©24 5854 ECE R ECE R7/02 (1007-24V)	87/00 💩			
See page 79 for mounting	ng accessories.				

### LED Safety DayLights™ - 83mm Round

This LED lamp features an integrated Safety DayLight and front position function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight.



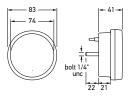










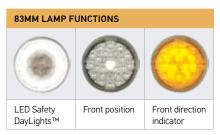


2108-GMD	2BE 980 687-111		12 VOLT	
2108-GMD24V	2BE 980 686-011	2BE 980 686-011 2		24 VOLT
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.			
Power Consumption	Safety DayLights™: Front position: Front indicator:	Part No. 210 3W 1W 4W	8-GMD Part No. 4W 1W 4W	2108-GMD24V
Protection	Reverse polarity and transient spike circuit protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Lens Material	Nylon (PA12)			
Compliance	ADR 6/00: Cat 1	ADR 49/00	ADR 76/00	£24 5854
	ECE R6/01	ECE R7/02	ECE R87/00	
See page 79 for mounting accessories.				

## LED Safety DayLights™ - 83mm Round with Front Position / Front Direction Indicator Lamp

This LED Combination Lamp features an integrated Safety DayLight, front position and front direction indicator function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight. This lamp eliminates the need for installation of multiple lamps.





### Safety DayLights™ Smart Controller

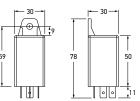
This Smart Controller is designed to simplify the installation of HELLA's LED Safety DayLights™ range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

The Smart Controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.

\*Advanced version with voltage variation monitor for installation in vehicles with fuel saving alternators.









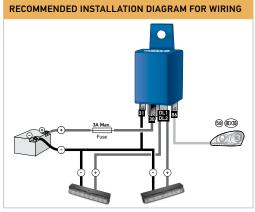
3090	5DF 980 818-011 – (Advanced*)	-
3090BULK	5DF 980 818-017 – (Advanced*)	Pack of 20
3091	5DF 980 818-001 – (Standard)	-
3091BULK	5DF 980 818-007 – (Standard)	Pack of 20
Voltage	Multivolt™ suitable for 12 and 24 volt systems	
Maximum Continuous Load	20W	
To Suit	HELLA LED Safety DayLights™ range	

Features a Safety DayLights  $^{\text{\tiny{TM}}}$  OFF delay of approximately 10 seconds.





WIRING SPECIFICATIONS		
Terminal Number	Connect to	
30	Battery (+)	
31	Earth return (-)	
86	Front position or headlamps (+)	
DL1 & DL2	Safety DayLights™ (+)	



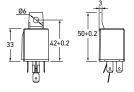
### Dual Function Safety DayLights™ Controller

This Controller is designed to turn your HELLA Safety DayLights™ into front position lamps at night. The dual function controller is connected and activated by the headlamp of the vehicle.

The dual function controller reduces the current to the Safety DayLights $^{\text{TM}}$  thus turning them into road legal\* front position lamps. Only one controller is required for a pair of HELLA Safety DayLights $^{\text{TM}}$ .

\* Please note legally required spacing of front position lamps and only one pair of front position lamps is legally permitted.

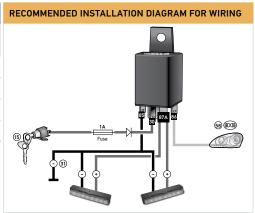


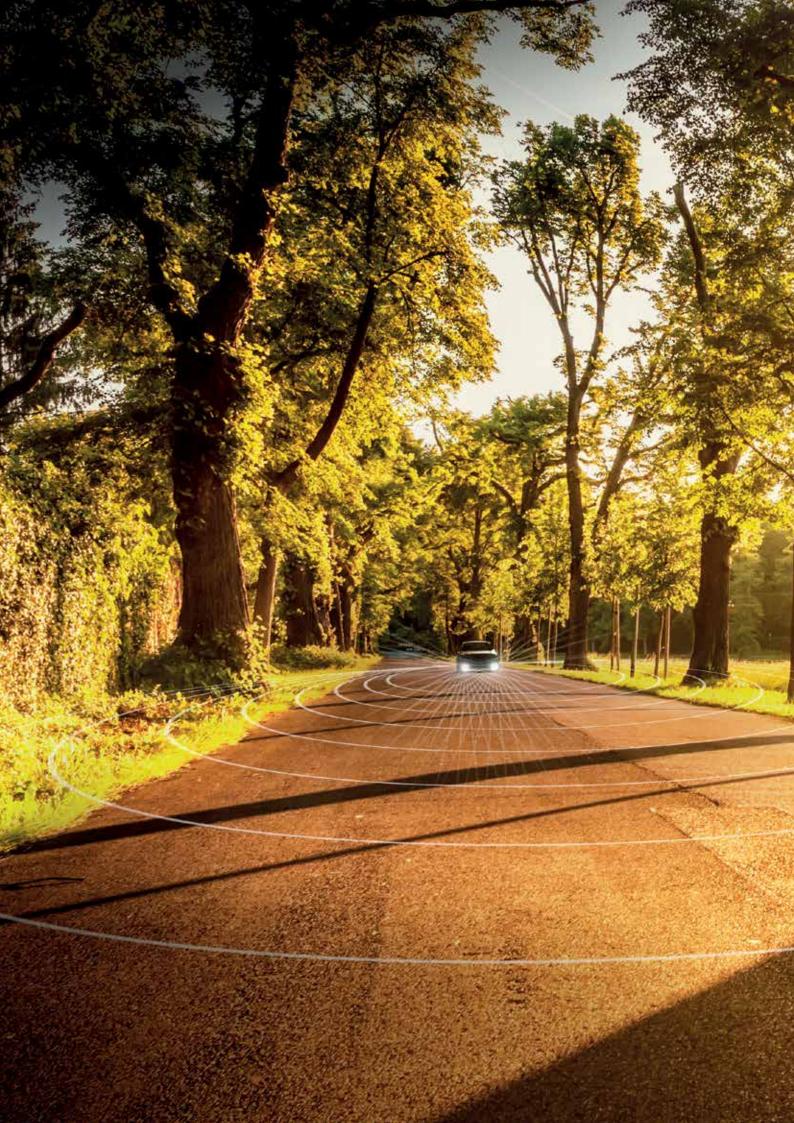




9.5630.03	2DF 980 816	-041	12 VOLT
9.5636.03	2DF 980 816	-061	12 VOLI
9.5630.04	2DF 980 816-	-541	24 VOLT
9.5636.04	2DF 980 816	-561	24 VOLI
To suit Part No.	9.5630.03 1009, 5619, 5630, 5631 9.5636.03 5636 9.5630.04 1009-24V, 5619-24V, 5630-24V, 5631-24V 9.5636.04 5636-24V		

WIRING SPECIFICATIONS		
Terminal Number	Connect to	
30	Ignition (+)	
85	Earth return (-)	
86	Front position or headlamps (+)	
87A	Safety DayLights™ (+)	

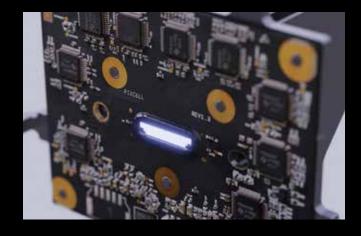






## Headlamps and Inserts

HELLA has manufactured headlamp systems for more than 100 years. The durability and reliability of HELLA products has made HELLA a world leader in headlamp technology.







# Contents

### **Headlamps and Inserts**

60mm Modules Halogen110-11	1
90mm Modules96-9	9
LED Headlamps 7" Round100-10	)1
Semi Sealed Headlamps 5 ¾" Round 104-10	)5
Semi Sealed Headlamps and Housings 7" Round102-10	)3
Semi Sealed Headlamps and Housings Rectangular106-10	)8
Universal Headlamns 109-11	l 1

### 90mm Performance Sealed LED Headlamp Modules - L4060 Series

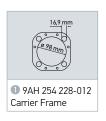
The L4060 low beam headlamp module provides the best of HELLA OE headlamp technology in a retrofit solution that can be fitted to a wide variety of vehicles. High quality optics utilise a 55x70 square aperture lens, providing uniform illumination, sharp cut off patterns and high illumination efficiency.

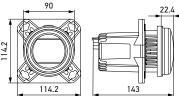


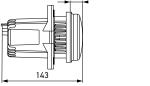
1ML 012 488-111



1ML 012 488-131







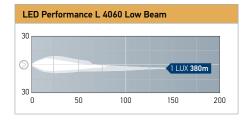
1ML 012 488-111		LOW BEAM
1ML 012 488-131		LOW BEAM + DRL + PO
Mounting	Standard 90mm module mounting (4x lugs, 85mm square pattern). Includes both mounting kit options as standard	

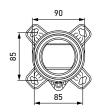
ADR

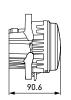
LED

ECE

Mounting	Standard 90mm module mounting (4x lugs, 85mm square pattern). Includes both mounting kit options as standard	
Voltage	9-32V	
Power Consumption	Low Beam: 20W DRL: 16W PO: 2W	
Light Source	LED	
Weight	764 g (Low Beam), 781 g (Low Beam + DRL + PO)	
Connection	Integrated DT Type Socket, 4-pin	
Colour Temperature	5500 K	
Lens Material	Coated Polycarbonate	
Compliance	ECE R112/01 ECE R10 (£) 4090	
Accessory	9AH 254 228-012	







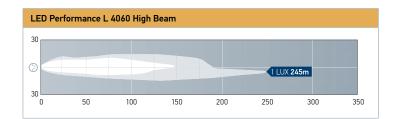








1F0 011 988-121		HIGH BEAM
1F0 011 988-131		HIGH BEAM + DRL + PO
1F0 011 988-	1F0 011 988-171	
Mounting	Standard 90mm module mounting (4x lugs, 85mm square pattern). Includes both mounting kit options as standard.	
Voltage	9-32V	
Power Consumption	High Beam: 20W DRL: 16W PO: 2W	
Light Source	LED	
Weight	552 g	
Connection	Integrated DT Type Socket, 4-pin	
Colour Temperature	5500 K	
Lens Material	Coated Polycarbonate	
Compliance	ECE R112/01 ECE R10 (£) 3831	
Accessory	9AH 254 228-012	



### 90mm Performance Sealed LED Headlamp Modules - L4060 Series

The L4060 high beam modules may be used with the low beam module in an ensemble or as a stand-alone high beam or auxiliary lamp solution. The modules can also provide an integrated Daytime Running light/Position Outline function or direction indicator function with HELLA CELIS ring technology.



1F0 011 988-121



1F0 011 988-131



1F0 011 988-171



### 90mm Essential Sealed LED Headlamp Modules - R 80 Series

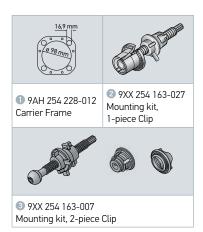
The Essential Series R 80 headlamp modules provide quality HELLA 0E LED lighting technology in a cost effective, robust product. Using an innovative reflector based optical design, the R 80 series produces a well controlled, homogeneous distribution of light that is synonymous with the HELLA brand. With a robust aluminium housing and polycarbonate lens construction, the R 80 series is an ideal upgrade for older halogen headlights offering a long, maintenance-free service life and reduced operating costs. The R 80 is also more compact than many other LED lighting modules with lens-based optics.

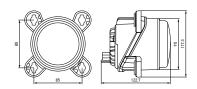


1M0 015 050-011



1K0 015 050-021









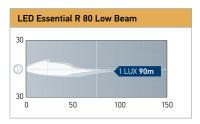




1M0 015 050-011		LOW BEAM
Mounting	Standard 90mm module mounting (4x lugs, 85mm square pattern). Requires optional mounting kit.	
Voltage	9-32V	
Power Consumption	24W	
Light Source	LED	
Weight	445 g	
Connection	Integrated DT Type Socket, 2-Pin	
Colour Temperature	5750 K	
Lens Material	Coated Polycarbonate	

€1)8993

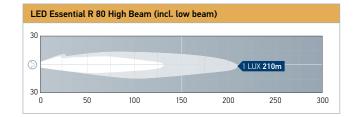
 $\otimes$ 



ECE R112/01 ECE R10

Compliance

1K0 015 050-021		HIGH BEAM
Mounting	Standard 90mm module mounting (4x lugs, 85mm square p Requires optional mounting kit.	pattern).
Voltage	9-32V	
Power Consumption	14.5W	
Light Source	LED	
Weight	445 g	
Connection	Integrated DT Type Socket, 2-Pin	
Colour Temperature	5750 K	
Lens Material	Coated Polycarbonate	
Compliance	ECE R149 Ref.20 ECE R10 (£1) 8993	<u></u>





To the product video





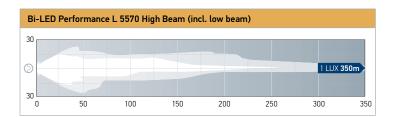








#### 1LL 012 758-111 - L5570 LOW AND HIGH BEAM 4x Pre-Mounted 10mm Ball Joints, 85mm x 120mm pattern. Mounting Mounting clips to suit 14/17mm holes for panel mounting included. Voltage Power Low Beam: 21W High Beam: 34.5W (Total, combined with low beam) Consumption Light Source Weight 1280 g Integrated DT Type Socket, 4-Pin Connection Colour 6000 K Temperature Lens Material Coated Polycarbonate Compliance ECE R112/01 Ref.20 ECE R10 (E1) 4209 ◬



### 90mm Performance Sealed Bi-LED Headlamp Modules - L5570 Series

HELLA's top-end Bi-LED technology is the choice of premium European automobile manufacturers. The 2nd generation Bi-LED module with further enhanced lighting/ electronics allows for this OE-derived technology to be fitted to vehicles requiring a single module providing low and high beam illumination. Internal optics utilise a 55x70 square aperture lens, hidden behind an optically clear Coated PC external lens. Only passive cooling to the rear of the module is required. Control electronics provide a function output for failure control.





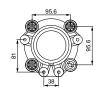


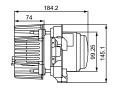








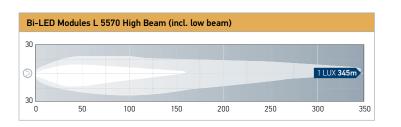




#### 1LL 015 318-041 - L4565

LOW AND HIGH BEAM

Mounting	4x Bolted mount, Trapezoidal pattern
Voltage	9-32V
Power Consumption	Low Beam: 22W High Beam: 41W (Total, combined with low beam)
Light Source	LED
Weight	1565 g
Connection	Integrated DT Type Socket, 4-Pin
Colour Temperature	5500 K
Lens Material	Coated Polycarbonate
Compliance	ECE R149 Ref.17.5 ECE R10 (E) 0020 (🖎



### 90mm Performance Sealed Bi-LED Headlamp Modules - L4565 Series

The L4565 Series Bi-LED module is the third Generation of the Performance series of 90mm LED Headlamp modules and introduces a new Zero Tolerance Integration mounting system.

The lamp is mounted by the front fascia and lamp aiming adjustments occur internally. 'Clearance gaps' required for conventionally mounted modules to achieve module aiming adjustments are no longer needed. the latest electronics and LED developments are also included to produce a headlamp module packed with the very best in OE style lighting technology.



1LL 015 318-041 (L4565 Series)

#### 7" Round LED Headlamps

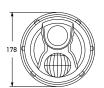
### - High/Low Beam and Daytime Running Lamp/Front Position

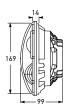
The high/low beam function of the 7" LED headlamp range offers 1150/750 lumen light output and a wide spread creating a superior light distribution increasing peripheral vision. With the added feature of Daytime Running Lamps and Front Position Lamps the 1058LED is a one-stop-shop for all headlamp needs, increasing visibility and therefore safety on the road.

Combining the latest state of the art LED technology, multi-voltage 12/24V DC circuit design and precision optics, the retrofit lamps provide outstanding visibility, safety, and durability – making them one of the most advanced 7" LED headlamps available. The tough die-cast aluminium housing is IP 67 sealed against water and dust ingress with a UV resistant, hard coated polycarbonate lens making the HELLA's 7" Round LED Headlamp range perfect for use on and off-road.















1056LED	1L6 958 307-001	LOW AND HIGH BEAM				
Mounting	Retrofit 178 Ø (7") headlamps					
Voltage	Multivolt™ for optimum brightness in 12 and	d 24 volt syste	ems			
Power Consumption	High Beam: 35W Low Beam: 25W					
Light Output	High Beam: 1150 lumen Low Beam: 750 lumen					
Protection	Reverse polarity protection.  IP 67 (Protection against dust and high-pressure water jets)					
Connection	3 PIN "H4" type male plug (100mm cable)					
Housing Material	Die-cast Aluminium					
Lens Material	Coated polycarbonate					
Compliance	ECE R112/01 Ref. 12.5 (E1) 7581 ADR 46/00					

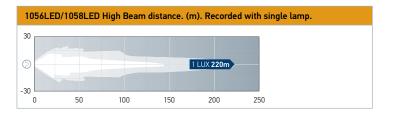
1056LE	D/1058LED L	ow Beam d	istance (m).	Recorded with single lamp.
30				
0			1 LUX 180m	<b>3</b> —
-30				
0	50	100	150	200

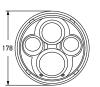
1058LED	1L6 958 307-011				LOW AND HIGH BEAM + PO + DRL	
Power Consumption	High Beam: Low Beam: Daytime Runni Front Position:	J 1	35W 25W 15W (1058LE 2W (1058LE	ED version on ED version on	, .	
Cable Length	Part No. 1058LED has 2 additional 100mm pre-wired cables with male blade terminals for front position and daytime running lamp functions.					
Compliance	ECE R112/01 R87/00 ADR 46/00, AD	Ref. 12.5 ECE R7/02 DR 49/00, ADF	(E11) 6081 R 76/00	ECE	<u>&amp;</u>	

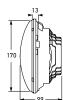
Other specifications as per Part No. 1056LED



Daytime Running Lamp Front position





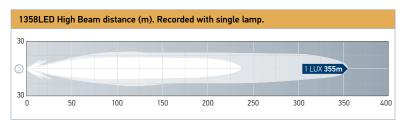








1358LED	1L6 958 307-021 HIGH BEAM				
Mounting	Retrofit 178 Ø (7") headlamps				
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt syst	tems			
Power Consumption	60W				
Light Output	1440 lumen				
Operating Temperature	-40°C to 65°C				
Protection	Reverse polarity protection.  IP 67 (Protection against dust and high pressure water jets)				
Cable Length	2 x 100mm cables with male blade terminals				
Housing Material	Die-cast Aluminium				
Lens Material	Coated polycarbonate				
Compliance	(E1) 7501 ECE R112/01 Ref. 30 ADR 46/00	<u></u>			



### 7" Round LED Headlamp High Beam

The 1358LED lamp features a high beam function with a massive 1440 lumen light output for only 60W. Combining the latest state of the art LED technology, multi-voltage 12/24V DC circuit design and precision optics, the retrofit lamps provide outstanding visibility, safety, and durability – making them one of the most advanced 7" LED headlamps available.

The tough die-cast aluminium housing is IP67 sealed against water and dust ingress with a UV resistant, hard coated polycarbonate lens making HELLA's 7" Round LED Headlamp perfect for use on and off-road.



### 178mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with sealing cap.











1056	1L6 002 395-	1L6 002 395-843			
Voltage	Globe to be orde	Globe to be ordered separately			
Globes to Suit	Headlamp:	12V 24V Headlamp: XD1260/55 XD2475/70			
Compliance	ADR 46/00				
Where front position lamp is required, use Part No. 1058.					



### 178mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp globe holder and sealing boot.



1058	1L6 002 395-1	1L6 002 395-132			
Voltage	Globes to be orde	Globes to be ordered separately			
Globes to Suit	Headlamp: Front position:	12V XD1260/55 HL124	<b>24V</b> XD2475/70 HL244		
Compliance	ADR 46/00	ADR 49/00			



### 178mm H4 Halogen High/Low Beam Insert - Hardened Glass

High performance halogen headlamp insert fitted with extremely robust hardened glass lens providing maximum resistance when subjected to high operating temperatures and thermal shock. Ideal for 24V and high wattage globe applications. Supplied complete with sealing boot and front position lamp globe holder assembly.









1058HD	1L6 002 395-261			
Voltage	Globes to be ordered separately			
Globes to Suit	Headlamp: Front position:	12V XD1260/55 HL124	<b>24V</b> XD2475/70 HL244	
Compliance	ADR 46/00	ADR 49/00		



1016

1017

9AB 912 420-511







#### 178mm H3 Halogen Driving Lamp Insert

Suitable for use as high beam headlamp in most 178mm round headlamp carriers (e.g. Part No. 1016).



9.1358.01	9DS 113 469-001			
Voltage	Globe to be ordered separately			
Globes to Suit	12V YC1255, YC12100 24V YC2470, YC24100			
Compliance	ADR 46/00			
3rd Edition ADR compliance applies only to 55W (YC1255) and 70W (YC2470) globes. Globes to be ordered separately.				





CHROME RIM

### 178mm Headlamp Housing

Headlamp housing and chrome rim for halogen or conventional sealed beams and inserts 178mm in diameter. Fully sealed steel cowl, complete with adjusting mechanism for vertical and horizontal alignment, sealing gasket, stainless steel retaining rim and 3 pin wiring harness with separate park lamp connection. Ideal for truck, bus or body builders. Suits Mercedes-Benz, Kenworth, Mack etc. Outer chrome rim (Part No. 1017) to suit headlamp housing Part No. 1016.



### 146mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.









ECE

ADR



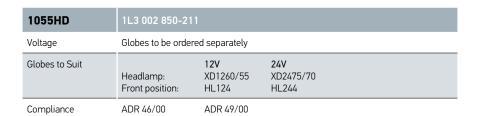
1055	1L3 002 850-0	1L3 002 850-062			
Voltage	Globes to be orde	Globes to be ordered separately			
Globes to Suit	Headlamp: Front position:	<b>12V</b> XD1260/55 HL124	<b>24V</b> XD2475/70 HL244		
Compliance	ADR 46/00	ADR 49/00			



### 146mm H4 Halogen High/Low Beam Insert - Hardened Glass

High performance halogen headlamp Insert fitted with extremely robust hardened glass lens, providing maximum resistance when subjected to high operating temperatures and thermal shock. Ideal for 24V and high wattage globe applications. Supplied complete with sealing boot and front position lamp globe holder assembly.







### 114mm Spot Lamp/Long Range Beam

Spot Lamp Beam to suit hand held spot lamp Part No. 1520.





2 screw terminals

1089	1M4 905 905-001
Trade Part No.	4509
Voltage	12V
Power Consumption	100W









### 146mm H1 Halogen High Beam Insert

Semi-sealed headlamp, for high beam section of dual headlamp systems with sealing boot.



1053	1K3 114 155-001				
Voltage	Globes to be ordered separately				
Globes to Suit	Headlamp:	<b>12V</b> C1255	<b>24V</b> C2470		
Compliance	ADR 46/00				
Earth terminal is a 'Post' (bullet) type connection.					











### 146mm H1 Halogen Low Beam Insert

Low beam insert with front position lamp globe holder. Suitable for dual headlamp systems.



1054	1M3 114 178-001			
Voltage	Globes to be ordered separately			
Globes to Suit	Headlamp: Front position:	12V C1255 HL124	<b>24V</b> C2470 HL244	
Compliance	ADR 46/00	ADR 49/00		







### 146mm H1 Halogen Long Range Driving Insert

Semi-sealed headlamp, for high beam section of dual headlamp systems with sealing boot.

1040	1K3 002 425-191			
Voltage	Globes to be ordered separately			
Globes to Suit	Headlamp:	<b>12V</b> C1255, C12100	24V C2470, C24100	

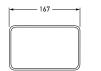




### 165 x 100mm H1 Halogen High Beam Insert

Semi-sealed Headlamp with sealing cap.











1041	1KB 003 177-061			
Voltage	Globes to be ordered separately			
Globes to Suit	Headlamp:	<b>12V</b> C1255	<b>24V</b> C2470	
Compliance	ADR 46/00			



### 165 x 100mm H4 Halogen High/Low Beam Insert

Semi-sealed Headlamp with sealing boot and wiring adaptor.







1042	1LB 003 177-301		
Voltage	Globes to be ordered separately		
Globes to Suit	Headlamp:	<b>12V</b> XD1260/55	<b>24V</b> XD2475/70
Compliance	ADR 46/00		



### 165 x 100mm H4 Halogen High/Low Beam Insert

Semi-sealed Headlamp and front position lamp with sealing boot.

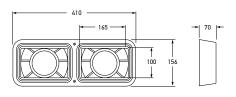






1044	1LB 003 177-511			
Voltage	Globes to be ordered separately			
Globes to Suit	Headlamp: Front position:	12V XD1260/55 HL124	<b>24V</b> XD2475/70 HL244	
Compliance	ADR 46/00	ADR 49/00		





1025	1VB 950 951-001	
Spare Part	9.1025.07	Chrome Plated Outer Rim

#### Twin Rectangular Headlamp Housing

For most 165 x 100mm Rectangular Headlamp Units. Chrome plated outer rim. Complete with adjusting mechanisms for vertical/horizontal alignment and wiring loom. Ideal for truck, bus or body builders.







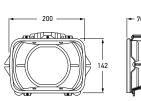
1043	1LE 003 427-041			
Voltage	Globes to be orde	Globes to be ordered separately		
Globes to Suit	Headlamp: Front position:	<b>12V</b> XD1260/55 HL124	<b>24V</b> XD2475/70 HL244	
Compliance	ADR 46/00	ADR 49/00		



#### 200 x 142mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp globe holder.





#### Rectangular Headlamp Housing

Suits 200 x 142mm Rectangular Headlamp Units (Part No. 1043). Ideal for truck, bus or body builders.

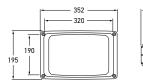




#### H4 Halogen High/Low Beam Headlamp Assembly

Lamp unit lens dimensions 352 x 195mm, complete with mounting frame and adjusting mechanisms for vertical and horizontal alignment. Fully enclosed housing with removable rear sealing cap for globe replacement access. Ideal for truck, bus or body builders.









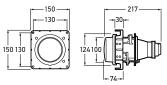


1027	1LG 003 434-181	1LG 003 434-181		
Mounting	Simple four-point m	Simple four-point mounting.		
Voltage	Globes to be ordered	Globes to be ordered separately.		
Globes to Suit	Headlamp: Front position:	<b>12V</b> XD1260/55 HL124	<b>24V</b> XD2475/70 HL244	
Spare Parts	9.1027.01 9.1027.02 9.1027.03 9.1027.04	Clear Lens Reflector Lens Gasket Sealing Cap		
Compliance	ADR 46/00	ADR 49/00		

#### DE H1 Low Beam Headlamp Assembly

Compact DE H1 Low Beam Headlamp Assembly with 100mm light aperture. Supplied with protective rubber sealing cap.









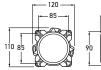
1028	1BL 007 834-001		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V 24V	C1255 C2470	
Spare Part	9.1028.07	Rubber Protective Cap	
Compliance	ADR 46/00		









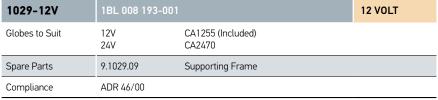


1	—— 150 ———
90	

ssembly	
mpact DE H7 Low Beam Headlan	np

DE H7 Low Beam Headlamp

Coi Assembly with 90mm light aperture. Supplied with protective rubber sealing cap.

















103	
85	104
	%

1030-12V	1K0 008 191-00	1		12 VOLT
1030-24V	1K0 008 191-02			24 VOLT
Globes to Suit	Headlamp: Front position:	12V CA1255 HL124	<b>24V</b> CA2470 (Included) HL244 (Included)	
Spare Parts	9.1029.08 9.1029.09	Position lamp connector set Supporting Frame		
Compliance	ADR 46/00	ADR 49/00		



#### FF H7 Main Beam Headlamp Assembly with Position Lamp

Compact FF H7 Main (High) Beam Headlamp Assembly with 90mm light aperture and inbuilt position lamp. Supplied with protective rubber sealing cap and position lamp connector set.

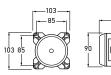












1031-24V	1K0 008 191-04	1	24 VOLT
Globes to Suit	12V 24V	CA1255 CA2470 (Included)	
Spare Parts	9.1029.09	Supporting Frame	
Compliance	ADR 46/00		



#### FF H7 Main Beam Headlamp Assembly

Compact FF H7 Main Beam Headlamp Assembly with 90mm light aperture. Supplied with protective rubber sealing cap.

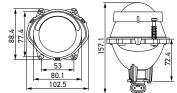


#### 60mm Universal Halogen Headlamp Modules

These headlamp modules were developed for maximum lighting performance with a specified size. In addition, a solution for practice-oriented installation was important. A non-patterned lens is utilised for the high and low beam. An HB3 (output 60 W) is used as a light source for both high and low beam.

The module comprises a glass lens, lens retaining ring (black plastic), spacer ring (black plastic) and a die-cast aluminium reflector with 4 mounting brackets.



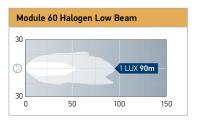


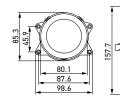






1TL 998 570	-641	LOW BEAM (MOTORCYCLE/ POWERSPORTS ONLY)
Voltage	12V	
Globes to Suit	12V: HB3 60W (CB1265)	
Weight	374 g	
Lens Material	Glass	
Compliance	ECE R113 D (E4) 0237	









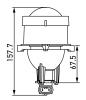




1KL 998 570	-621	HIGH BEAM	
Voltage	12V		
Power Consumption	60W		
Globes to Suit	12V: HB3 60W (CB1265)		
Weight	374 g		
Lens Material	Glass		
Compliance	ECE R112/01 Ref.10		

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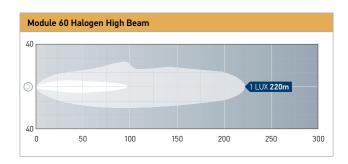






1KL 998 570-631		HIGH BEAM + PO
Voltage	12V	
Globes to suit	Headlamp 12V: HB3 60W (CB1265) Position Light 12V: W5W (W125)	
Weight	330 g	
Compliance	ECE R112/01 Ref.10 E4 26353	







### Fog and Driving Lamps

Whether in the urban jungle, the early morning mist of a country road, Autumn fog or off-road, superior lighting performance significantly enhances your driving safety.





## Contents

#### Fog and Driving Lamps

Halogen Driving and Fog Lamps	.123-139
LED Driving Lamps	.114-119
LED Light Bars	. 140-147
Xenon Gas Discharge Driving Lamps.	.120-122

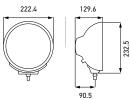
#### Rallye 4000 LED Driving Lamp

The Rallye 4000 LED Driving Lamp combines performance and durability. Available with Pencil Beam or Spread Beam light distribution, the high efficacy from the latest LED technology provides almost 1.3km of clear white (5900K) light from the Pencil Beam version with a low power consumption of just 33W.

LED technology combined with the durable design of the Rallye 4000 LED, which features a high-quality, full metal housing and zinc plated die-cast mounting bracket, allows for long service life, backed by a 3 year warranty.

A replaceable LED-insert with polycarbonate lens is available.









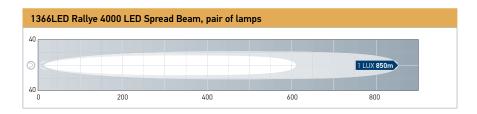


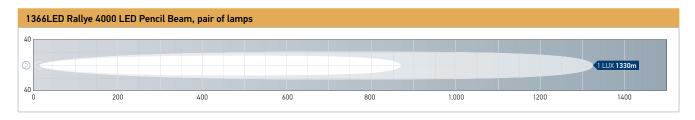




1366LED	1F8 016 560-101 SPREAD BEAM			
1365LED	1F8 016 560-111 PENCIL BEAM			
Mounting	High-quality, robust full metal housing and zinc plated die-cast mounting bracket			
Voltage	Multi-voltage: suitable for 12V DC and 24V DC electrical supplies			
Power Consumption	2700 mA / 32.4 W at 12V DC 1350 mA / 32.4 W at 24V DC			
Weight	2.7kg			
Connection	Supplied with 400 mm long removable connection lead			
Light Source	Clear white (5900K) LED light			
Protection	Ingress protection rating: IP X9K, IP 6K7			
Compliance	(E) 8873 R10/05			
Accessory	9BG 150 117-021 Chrome housing with external plug and connection cable ①			
Spare Parts	1F8 241 430-011* Driving Lamp insert Spread Beam 2 1F8 241 449-011* Driving Lamp insert Pencil Beam 3			

<sup>\*</sup> Suitable for upgrading existing Rallye 3003 and 4000 series halogen driving lamps







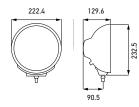












1F8 016 560-0	001 – Satin Black (ECE Ref. 25)   wide BEAM  wide BEAM					
1F8 016 560-0	011 – Satin Black (ECE Ref. 50) ARROW BEAM					
1F8 016 560-0	<b>021</b> – Chrome (ECE Ref. 25)   AGR ♦ WIDE BEAM					
1F8 016 560-0	<b>031</b> – Chrome (ECE Ref. 50)					
Mounting	High-quality, robust full metal housing and zinc plated die-cast mounting bracket					
Voltage	Multi-voltage: suitable for 12V and 24V electrical supplies					
Power Consumption	2.4 W position light and 14.5 W high beam at 12V DC 5 W position light and 14.5 W high beam at 24V DC					
Weight	2.7kg					
Connection	Supplied with 2200 mm 'flying lead' connection					
Light Source	Clear white (5900K) LED light					
Protection	Ingress protection rating: IP X9K, IP 6K7					
Compliance	€1 8873 R10/05 🙆					
	1F8 016 560-001/021 🔯 5919 R112/01 R7 Ref. 25					
	1F8 016 560-011/031 🔯 5920 R112/01 R7 Ref. 50					
Accessory	9BG 150 117-021 Luminator 3.0 LED driving lamp housing, chrome, with external connector and connecting cable					
Spare Parts	1F8 241 400-011 Replacement insert - Wide Beam (ECE Ref. 25)  1F8 241 429-011 Replacement insert - Narrow Beam (ECE Ref. 50)  Replacement insert - Narrow Beam (ECE Ref. 50)					

#### Luminator 3.0 LED Driving Lamp

The revolutionary Luminator LED Driving Lamp now features a distinctive position lamp function made possible by HELLA's innovative Edge Light technology. Utilising the Rallye 4000 metal body, which has proven itself on rally cars and heavy machinery, these lamps are sturdy and reliable. With efficient low power consumption as well as high efficacy from the latest technology allowing up to nearly 600m of light for only 2x15W of power.

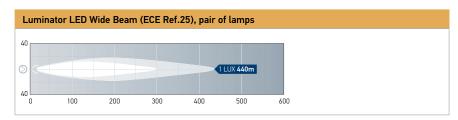
A replaceable LED headlamp insert with shock-resistant polycarbonate lens is also available.

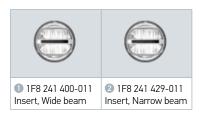


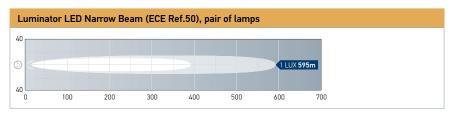


Chrome housing

Satin black housing









8125	8XS 147 945-001	PROTECTIVE COVER
8126	9HG 148 995-001	PROTECTIVE GRILLE
8141	9HD 905 445-001	CLEAR PROTECTIVE COVER



#### LED Luminator Compact Spread Beam Driving Lamp

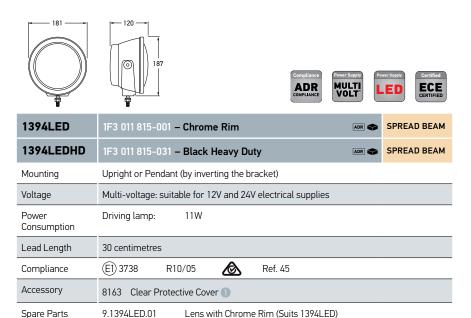
Compact housing with powerful LED technology and hard coated PC lens. Suitable for off-road use, briefly immersible (up to 5 minutes fording at up to 0.5m in clear water). The heavy duty version has a 2500mm ventilation hose and T-piece to permit fording even in muddy water. Fitted with 3.0m, two-pole cable (with bare ends).

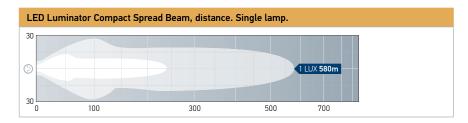


Chrome Rim - 1394LED



Heavy Duty Black Rim - 1394LEDHD





Lens with Black Rim (Suits 1394LEDHD)

9.1394LEDHD.01



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1F8 016 797-001 (ECE Ref. 25)						
1F8 016 797-	016 797-011 (ECE Ref. 50)					
Mounting	Mounting bracket made of zinc-coated sheet steel with large adjustment range					
Voltage	Multi-voltage: suitable for 12V DC and 24V DC electrical supplies					
Power Consumption	2.4 W position light and 14.5 W high beam at 12V DC 5 W position light and 14.5 W high beam at 24V DC					
Weight	1.6kg					
Housing	High quality thermoplastic housing with chrome finish					
Light Source	LED light					
Protection	Ingress protection rating: IP X9K, IP 6K7					
Compliance	(E) 8873 R10/05 <b>△</b> 1F8 016 797-001 (£24) 5919 R112/01 R7 Ref. 25 1F8 016 797-011 (£24) 5920 R112/01 R7 Ref. 50					
Spare Parts	1F8 241 400-011 Replacement insert - Wide Beam (ECE Ref. 25) 1 1F8 241 429-011 Replacement insert - Narrow Beam (ECE Ref. 50) 2					

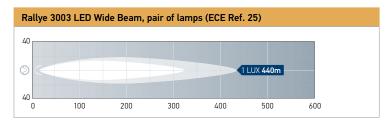
#### Rallye 3003 LED Driving Lamp

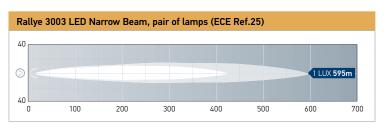
The Rallye 3003 LED is an auxiliary Driving Lamp with integrated LED position light that uses state-of-the-art EdgeLight technology. Combined with an impact-resistant housing made of high-quality thermoplastic material with chrome finish and a zinc-coated steel mounting bracket, the Rallye 3003 LED's good looks are matched by its durability.

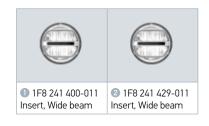
A replaceable LED driving lamp insert with shock-resistant polycarbonate lens available.











#### **RokLUME 380 N LED Driving Lamp 12V DC**

The RokLUME 380 N LED Driving Lamp (ECE Ref. 40) is an extremely durable wide spot light for road illumination.

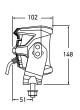
Using LED technology combined with stateof-the-art electronics, it provides a light output of up to 7800 lumens with a colour temperature of 5000K, yet power consumption is a highly efficient 84 W.

Originally developed to perform in the toughest operating environments such as mining, the RokLUME 380 N has a premium aluminium housing with NanoSafe coating (providing a non-stick and easy to clean surface), highimpact hard coated polycarbonate lens and heavy duty stainless steel surrounding bracket.





Accessory



9.1551LED.06



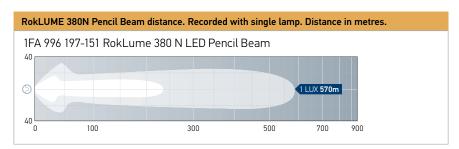








<b>1FA 996 197-151</b> - Pencil Beam, 12V DC (ECE Ref. 40)					
<b>1FA 996 197-181</b> - Pencil Beam, 24V DC (ECE Ref. 40)               ●					
Mounting Upright or Pendant. Heavy Duty bracket resists vibration.					
Power Consumption Max. 84W (Reduces if Thermal Management is in effect)					
Max. Light Output	7800 lumens				
Colour Temperature 5000K					
Temperature Range -40°C to +90°C					
Protection Reverse polarity protection. Transient spike circuit protection. IP 6K8 (Protection against dust and temporary water immersion) IP 6K9K / IP6K8 (Protection against dust and high-pressure/steam jet cleaning)					
Housing	sing Aluminium				
Lens Material Hard-coated PC (Optional 2.0 metre DT Pigtail Loom to be ordered separately)					
Cable Length	300mm Cable with DT Socket				
Compliance	♠ (€ CISPR 25 Class 5 Ref. 40				



DT Pigtail Loom, 2 metres





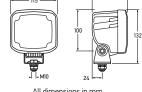






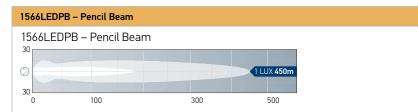






All dimensions in mm

1566LEDPB	1GA 995 606-021 - Ultra Beam LED Gen II Driving Lamp 12/24V DC	PENCIL BEAM			
Mounting	Upright or Pendant				
Voltage	Multivolt 9-33V DC				
Power Consumption	56W				
Max. Light Output	4000 lumens				
Colour Temperature 6500K					
Temperature Range	-40°C to +50°C				
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.				
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)				
Housing	Aluminium				
Lens Material	Nylon (PA12)				
Compliance	<u></u> € (€				
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres				





#### Ultra Beam LED Gen II Driving Lamp 9-33V DC

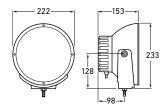
The popular Ultra Beam LED II series has now been expanded to include a Pencil Beam version. The light output is a powerful **4000 lumens** with a colour temperature of **6500K**. The light is distributed by a specially developed multi-faceted reflector and nylon (PA12) lens, thus ensuring homogeneous illumination. The integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating with voltage fluctuations between 9 and 33 Volts DC.



#### Predator iX Series Driving Lamps

New generation Predator Series Xenon Gas Discharge Driving Lamp featuring a new innovative design, modern clear glass lens, high-boost free-form (FF) reflector and in-built ballast for fast and easy installation. Weatherproof die-cast zinc housing and bracket. Suitable for heavy duty applications.

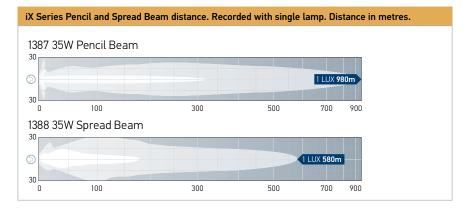






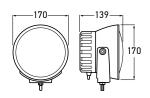


1387	1F8 007 560-711 High Boost iX Driving Lamp - 12V DC	PENCIL BEAM				
1387-24V	1F8 007 560-751 High Boost iX Driving Lamp - 24V DC	PENCIL BEAM				
1388	1F8 007 560-701 High Boost iX Driving Lamp - 12V DC	SPREAD BEAM				
1388-24V	1F8 007 560-741 High Boost iX Driving Lamp - 24V DC					
Mounting	Upright or Pendant (by inverting the bracket)					
Voltage	Determined by ballast (12V DC integrated ballast, 24V DC integrated ballast)					
Power Consumption	35W globe (42W total)					
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)					
Lead Length	80 Centimetres					
Accessories	8125 Protective Cover 1 8126 Protective Grille 2 8141 Clear protective Cover 3					
Spare Parts	<ul><li>9.1387.01 HB iX Pencil Beam Insert</li><li>9.1388.01 HB iX Spread Beam Insert</li></ul>					









1383	1F3 009 094-301 – XGD Driving Lamp - 12V DC PENCIL BEAM				
1384	1F3 009 094-311 − XGD Driving Lamp - 12V DC SPREAD BEAM				
Mounting	Upright or Pendant (by inverting the bracket)				
Voltage	12V DC integrated ballast				
Power Consumption	35W globe (42W total)				
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)				
Accessory	8155 Clear Protective Cover				
Spare Parts	9.1381.01 HB Pencil Beam insert 9.1382.01 HB Spread Beam insert				

# iX Series Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres. 1383 35W Pencil Beam 30 30 100 300 500 700 900

#### Rallye FF 4000 Compact iX Series

New generation Rallye FF 4000 Compact iX Series Xenon Gas Discharge Driving Lamp featuring a new innovative design, modern clear glass lens, high-boost free-form (FF) reflector and in-built electronic ballast for fast and easy installation. Weatherproof die-cast zinc housing and bracket. Suitable for heavy duty applications.

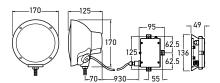




#### Rallye FF 4000 Compact Series

Compact Xenon Gas Discharge Driving Lamp featuring modern clear glass lens and newly developed high-boost free-form (FF) reflector. Weatherproof black metal housing. Suitable for heavy duty applications.





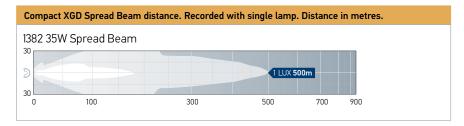




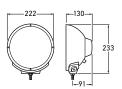


1382	1F3 009 094-141 Compact XGD Drivin	SPREAD BEAM				
Mounting	Upright	Upright				
Voltage	12V DC integrated ballast					
Power Consumption	35W globe (42W total)					
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)					
Accessories	8155 Clear Protective Cover ①					
Spare Parts	9.1382.01 9.1319.03 9.1319.04 9.1365.06 9.1378.08	HB Spread Beam insert Ballast 12V DC Ballast 24V DC Bracket adjusting screw set M8 Bracket assembly and loom				





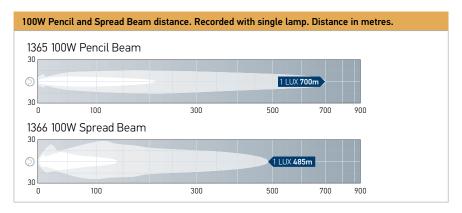
#### Rallye FF 4000 Series

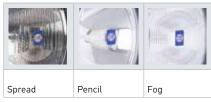




1365	1F8 007 560-121	- 100W Driving Lamp - 12V	•	PENCIL BEAM		
1366	1F8 007 560-101	IF8 007 560-101 – 100W Driving Lamp - 12V				
1165	1F8 007 560-111	– Fog Lamp White Optic - 12V	•	WIDE CORNERING		
Mounting	Upright					
Voltage	12V (globe included	)				
Power Consumption	100W	100W				
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)					
Spare Parts	9.1365.01 9.1366.01 9.1365.05 9.1365.06 9.1365.07 9.1365.08	Pencil Beam insert Spread Beam insert Male and Female Socket Connector Set M8 Screw Set Lens Retaining Rim Bracket Assembly and Loom				
Accessories	8125 8126 8141	Protective Cover 1 Protective Grille 2 Clear Protective Cover 3				





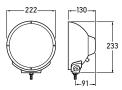




#### Rallye FF 4000 Series

High-performance Driving Lamp with weatherproof chrome-plated metal housing and bracket. Suitable for extreme off-road environments. Supplied with Allen Keys and Protective Cover, Part No. 8125.



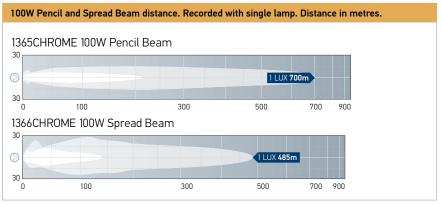




1365CHROME	1F8 007 560-141	-100W Chrome Driving Lamp - 12V	•	PENCIL BEAM
1366CHROME	1F8 007 560-151	-100W Chrome Driving Lamp - 12V	-	SPREAD BEAM
Mounting	Upright			
Voltage	12V (globe included)			
Power Consumption	ion 100W			
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)			
Spare Parts	9.1365.01 9.1366.01 9.1365.05 9.1365.06	Pencil Beam insert Spread Beam insert Male and Female Socket Connector Set M8 Screw Set		
Accessories	8125 8126 8141	Protective Cover  Protective Grille  Clear Protective Cover		













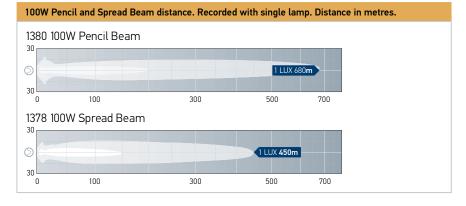
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1380	1F3 009 094-101 – 100W Compact Driving Lamp - 12V 😞 PENCIL BEAM		
1378	1F3 009 094-021 – 100W Compact Driving Lamp - 12V ጮ ❖ SPREAD BEAM		
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.		
Accessory	8155 Clear Protective Cover 1		
Spare Parts	9.1380.01       Pencil Beam insert         9.1378.01       Spread Beam insert         9.1365.06       M8 Screw Set         9.1378.08       Bracket Assembly		

#### Rallye FF 4000 Compact Series

Compact Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof black metal housing and bracket. Suitable for heavy duty applications.



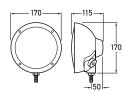




#### Rallye FF 4000 Compact Series

Compact Driving Lamps featuring modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof chrome-plated metal housing and bracket. Suitable for heavy duty applications.





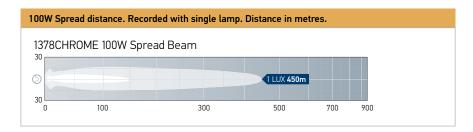




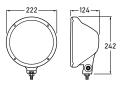


1378CHROME	1F3 009 094-031 100W Compact Chrome Driving Lamp 12V SPREAD B	
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.	
Accessories	8155 Clear Protective Cover ①	
Spare Parts	9.1378.01         Spread Beam insert           9.1365.06         M8 Screw Set	





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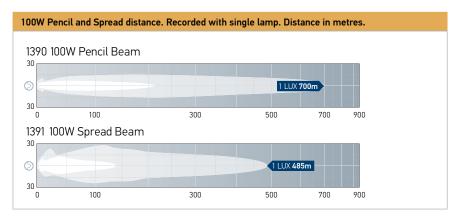


Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof plastic housing and bracket.





1390	1F8 009 797-221 100W Driving Lamp - Silver Rim 12V	PENCIL BEAM
1390CHROME	1F8 009 797-231 100W Driving Lamp - Chrome Rim 12V	PENCIL BEAM
1391	1F8 009 797-241 100W Driving Lamp - Silver Rim 12V	SPREAD BEAM
1391CHROME	1F8 009 797-251 100W Driving Lamp - Chrome Rim 12V	SPREAD BEAM
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)	
Accessory	8161 Clear Protective Cover ①	
Spare Parts	9.1365.01 Pencil Beam insert 9.1366.01 Spread Beam insert	

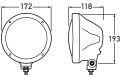


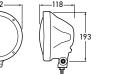


#### Rallye 3003 Compact Series

Compact Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof plastic housing and bracket.







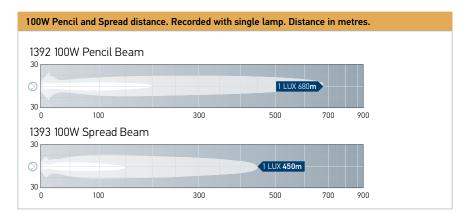






1392	1F3 010 119-031 100W Driving Lamp - Silver Rim 12V		
1392CHROME	1F3 010 119-131 100W Driving Lamp - Chrome Rim 12V	PENCIL BEAM	
1393	1F3 010 119-011 100W Driving Lamp - Silver Rim 12V △DR ◆	SPREAD BEAM	
1393CHROME	1F3 010 119-111 100W Driving Lamp - Chrome Rim 12V △□□ ◆	SPREAD BEAM	
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Accessory	8162 Clear Protective Cover ①		
Spare Parts	9.1380.01         Pencil Beam insert           9.1378.01         Spread Beam insert		







#### Rallye 1000 Series

High-performance Driving Lamps supplied with Protective Cover, Part No. 8118.



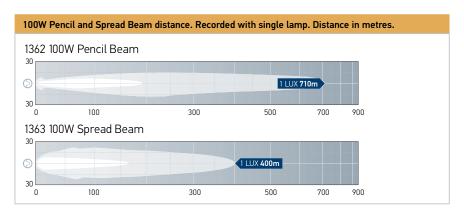






ADR

1362	1F7 004 700-17	1 – 100W Driving Lamp - 12V	•	PENCIL BEAM
1363	1F7 004 700-15	1 – 100W Driving Lamp - 12V	ADR 🔷	SPREAD BEAM
Mounting	Upright or Pendan	t. Supplied with two point fixing bracke	et (Part No.	8004).
Voltage	12V (globe included)			
Power Consumption	100W			
Globes to Suit	12V H2 (CD12100, CD1255) 24V H2 (CD24100, CD2470)			
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes			
Accessories	8134 Clear Protective Cover  8004 Two Point Fixing Bracket Set  2			
Spare Parts	9.1362.01Pencil Beam insert with globe holder9.1363.01Spread Beam insert9.1362.08Mounting Bracket assembly (without crossbolt, nut and washer)9.1362.09Body assembly9.1363.08Globe holder			



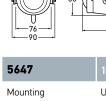




#### Micro DE Series

Compact Fog Lamp featuring a focused glass lens, modern free-form (FF) reflector, durable and lightweight magnesium housing and bracket. Kit includes 2 x Micro DE Fog Lamps, brackets, cabling, relay, switch and connectors.



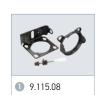








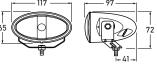
5647	1NL 008 090-82	I – Fog Lamp Kit - White Optic - 12V
Mounting	Upright or Pendant. Ideal for installations in/below front apron or front spoilers with limited mounting space. Standard mounting bracket and pre-assembled wiring harness included.	
Voltage	12V (globe included)	
Power Consumption	55W	
Globe to Suit	12V H3 (YC1255)	
Accessory	9.1115.08 Adjustable bracket assembly for installation into vehicle bodywork (optional)	



#### Comet FF 50 Series

Compact Driving and Fog Lamps featuring modern clear lens design and free-form (FF) reflector. Kit includes 2 x lamps and all parts required for installation.







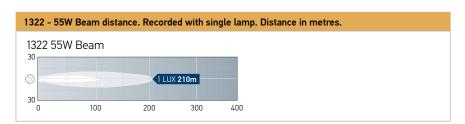






1322	1FA 008 283-011 – Driving Lamp - 12V
5613	1FA 008 283-811 – Driving Lamp - 12V
1122	1NA 008 283-001 - Fog Lamp - White Optic - 12V
5614	1NA 008 283-801 – Fog Lamp Kit- White Optic - 12V
Mounting	Upright or Pendant
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)
Accessory	8147 Clear Protective Cover

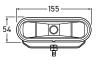












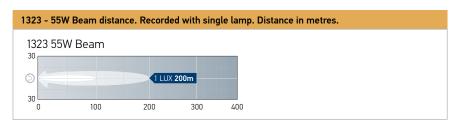


#### Comet FF 75 Series

Compact Driving and Fog Lamps featuring modern clear lens design and free-form (FF) reflector. Kit includes 2 x lamps and all parts required for installation.



1323	1FA 008 284-011 – Driving Lamp - 12V
5615	1FA 008 284-812 – Driving Lamp - 12V
1123	1NA 008 284-001 – Fog Lamp - White Optic - 12V
5616	1NA 008 284-802 – Fog Lamp Kit- White Optic - 12V
Mounting	Upright or Pendant
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)
Accessory	8148 Clear Protective Cover 1

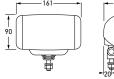




Comet FF 450 Series







-	72 -
	115
	-20-

Non-patterned glass lens with free-form (FF)
reflector. Computer calculated light distribution
for powerful light performance. Sturdy plastic
housing. Kit includes 2 x lamps, 2 x Clear
Protective Covers, and all parts required for
installation.

1324	1FB 010 951-001 – Driving Lamp - 12V	
5648/100	1FB 010 951-601 – 100W Driving Lamp - 12V SPREAD BEAM	
Mounting	Upright or Pendant	
Voltage	12V (globe included)	
Power Consumption	55W	
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (YC1255) and 70W (YC2470) globes	
Compliance	(E) 3221	
Spare Parts	9.1324.01 Driving lamp insert	
Accessory	8156 Clear Protective Cover ①	



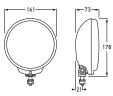
Comet FF 4	50 Spread Beam	distance. Recorded w	ith single lamp. Dista	nce in metres.
5648/100	100W Driving L	amp		
30				
0			UX <b>365m</b> –	
30				
0	100	300	500	



#### Comet FF 500 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kit includes 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.





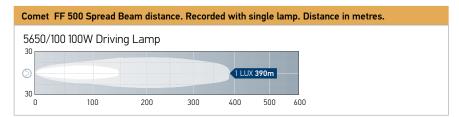






1325	1F6 010 952-001 – Driving Lamp - 12V ADR SPREAD BEAM
5650/100	1F6 010 952-601 – 100W Driving Lamp - 12V RP SPREAD BEAM
Mounting	Upright
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes
Compliance	(E) 3222
Spare Parts	9.1325.01 Driving Lamp insert
Accessory	8157 Clear Protective Cover ①



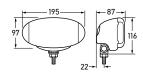


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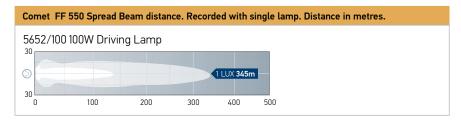


1326	1FD 010 953-001 – Driving Lamp - 12V SPREAD BEAM			
5652/100	1FD 010 953-601 – 100W Driving Lamp - 12V SPREAD BEAM			
Mounting	Upright or Pendant			
Voltage	12V (globe included)			
Power Consumption	55W			
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)			
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes			
Compliance	(E) 3223			
Spare Parts	9.1326.01 Driving Lamp insert			
Accessory	8158 Clear Protective Cover 1			

#### Comet FF 550 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kit includes 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.



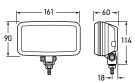




#### Comet 450 Series

Supplied with Protective Cover, Part No. 8123. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.





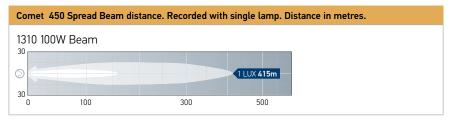






1310	1FB 005 860-033 – Driving Lamp - 12V SPREAD BEAU				
5646/100	1FB 005 860-032 - 100W Driving Lamp - 12V SPREAD BEAM				
1110	1NB 005 860-001 – Fog Lamp - White Optic - 12V FOG BEAM				
5645	1NB 005 860-002 – Fog Lamp Kit- White Optic - 12V 🔤 🗖 FOG BEAM				
Mounting	Upright and Pendant				
Voltage	12V (globe included)				
Power Consumption	55W				
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470) Fog 12V H3 (YC1255) 24V H3 (YC2470)				
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes				
Spare Parts	9.1310.01 Driving Lamp insert with globe holder 9.1110.01 Fog Lamp insert with globe holder 9.1308.08 Mounting Bracket Assembly 9.1310.09 Body Assembly				
Accessories	8123 Protective Cover 1 8136 Clear Protective Cover 2				









#### Comet 500 Series

Supplied with Protective Cover, Part No. 8121. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.











Voltage 12V (globe included)

Power Consumption

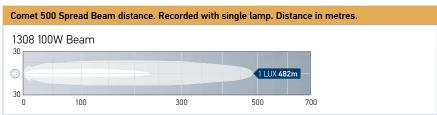
ADR

Globes to Suit 24V H3 (YC2470) Driving 12V H3 (YC1255) 12V H3 (YC1255) 24V H3 (YC2470) Fog

Note 3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes

Spare Parts 9.1308.01 Driving Lamp insert 9.1308.08 Mounting Bracket Assembly 9.1308.09 Body Assembly

Accessories 8121 Protective Cover 1 8137 Clear Protective Cover (2)

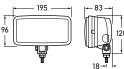




#### Comet 550 Series

Supplied with Protective Cover, Part No. 8122. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.





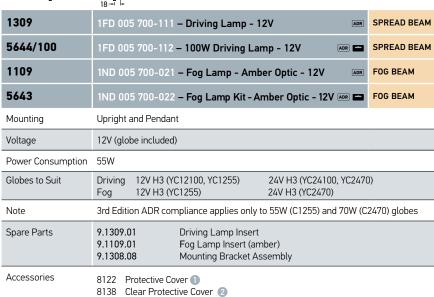








	Globes to Suit
Mary	Note
8	Spare Parts
Fog	Accessories



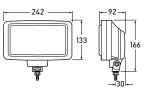




#### Jumbo 220 Series

Supplied with Protective Cover, Part No. 8124.







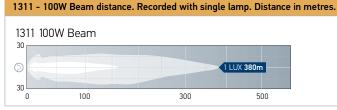






1311	1FE 006 300-121 – 100W Driving Lamp - 12V			
Mounting	Upright or Pendant			
Voltage	12V (globe included)			
Power Consumption	100W			
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)			
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes			
Spare Parts	9.1311.01 Driving Lamp Insert 9.1311.07 Retaining Rim – black			
Accessories	8124 Protective Cover 1 8139 Clear Protective Cover 2			











#### 140 Series

Kit including 2 x Driving Lamps fitted with 100W globes, 2 x Protective Covers, Part No. 8130 and all parts required for installation.



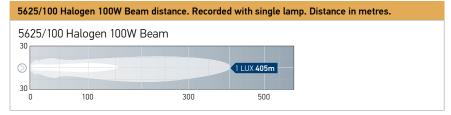




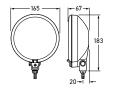




5625/100	1F4 956 011-021 – 100W Driving Lamp Kit - 12V				
Mounting	Upright				
Voltage	12V (globe included)				
Power Consumption	100W				
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)				
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes				
Spare Parts	9.1306.01 Driving Lamp Insert with globe holder 9.1306.09 Body Assembly 9.1345.08 Mounting Bracket Assembly				
Accessories	8130 Clear Protective Cover 2				







#### 160 Series

Supplied with Protective Cover, Part No. 8106. Kit includes 2 x Driving Lamps fitted with 100W globes, 2 x Protective Covers, Part No. 8106 and all parts required for installation.



1345	1F4 905 057-001 − 100W Driving Lamp 12V		
5623/100	1F6 954 982-021 - 100W Driving Lamp Kit - 12V		
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Spare Parts	9.1345.01 Driving Lamp insert 9.1345.08 Mounting Bracket Assembly 9.1345.09 Body Assembly		
Accessories	8106 Protective Cover  8132 Clear Protective Cover  2		

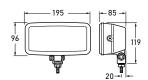
1345 Halogen 100W Beam d	istance. Recorded wit	h single lamp.	Distance in metres.	
1345 100W Beam				
30				
0		1 LUX	500m —	
0 100	300	500	700	



#### 181 Series

Supplied with Protective Cover. Kit includes 2 x lamps, 2 x Protective Covers, Part No. 8116 and all parts required for installation.









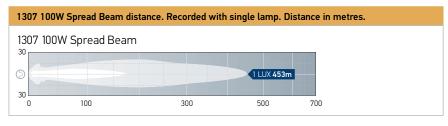




1307	1FD 905 054-001 – Driving Lamp 12V	SPREAD BEAM			
5633/100	1FD 910 338-001 – 100W Driving Lamp Kit - 12V R SPREAD BEAM				
1107	1ND 905 045-001 – Fog Lamp - Amber Optic - 12V  ः 🔤 🕏	FOG BEAM			
5632	1ND 905 378-001 – Fog Lamp Kit - Amber Optic - 12V 🔤 🗗 FOG BEAM				
Mounting	Upright or Pendant				
Voltage	12V (globe included)				
Power Consumption	55W				
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470) Fog 12V H3 (YC1255) 24V H3 (YC2470)				
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes				
Spare Parts	9.1307.01       Driving Lamp Insert         9.1107.01       Fog Lamp Insert         9.1307.09       Body Assembly         9.1308.08       Mounting Bracket Assembly				
Accessories	8116 Protective Cover 1 8133 Clear Protective Cover 2				



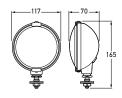




#### Sealed Pencil Beam Driving Lamps - 114mm

Kit includes 2 x lamps, All parts required for installation.





1300	1F1 905 049-001 – Sealed Driving Lamp - 114mm - 12V PENCIL BEAM		
5620	1F1 905 406-001 – S	Sealed Driving Lamp Kit - 114mm - 12V	PENCIL BEAM
Mounting	Upright or Pendant		
Voltage	12V (Sealed Beam included)		
Power Consumption	100W		
Spare Part	9.1300.08	Mounting Bolt Assembly	
Spare Part	1089 Sealed Beam		

#### Wiring Harnesses Universal Driving Lamp Wiring Kit

Complete Quick-Fit Wiring Harness for Driving Lamps, easy to install with no modification necessary to existing vehicle wiring. Supplied with detailed instructions.

5223	8KB 905 401-001 - Universal Driving Lamp Wiring Kit - Pre-wired - 12V DC
Content	<ul> <li>1 x H4 Headlamp adaptor plug</li> <li>1 x Heavy-duty 5mm battery supply to relay with 4mm power supply and chassis earth to both lamps</li> <li>1 x Inline fuse holder with 20A Blade fuse</li> <li>1 x Duckbill switch and connectors</li> <li>1 x Diode protected 40A relay in heavy-duty connector</li> </ul>



#### Wiring Harnesses Universal Auxiliary Wiring Kit - 12V DC

5224	8KB 905 404-001 – Universal Auxiliary Wiring Kit - 12V DC	•
Content	1 x 30A Relay	
	1 x On/Off Duckbill toggle switch	
	1 x 4.6m Length of 4mm cable	
	1 x 2m Length of 3mm cable	

Universal Wiring Kit supplied with all parts required for installation and detailed instructions.



#### LED Single Bar Wiring Kit - 12V DC

SKB 227 670-001 – Wiring Kit - 12V DC Connects Single Light Bar only
x 12V DC Relay x Blade fuse holder with 15A Fuse
x Pre-terminated loom and additional terminals for LED Bar connection Connects one Light Bar only

LED Light Bar Wiring Kit supplied with all parts required for installation and detailed instructions.



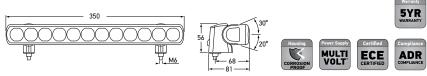
#### LED Light Bar 350

#### - Plastic Bracket

The innovative HELLA LED Light Bar 350 is the first such lamp with a lightweight body manufactured entirely from non corrosive, thermally conductive high performance plastics. This aerodynamic powerhouse features 12 durable high performance automotive grade LEDs and a maximum luminous intensity of 145,000 candela with a power consumption of only 25W.

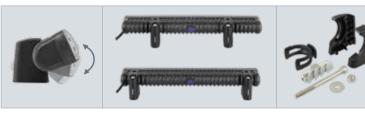
The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref 20) and Pencil Beam (Ref 30).

The hermetically sealed and submersible Light Bar features a Multivolt™ circuit for optimum brightness at input voltages from 9V to 33V, is fully road legal with ECE approval and comes with a comprehensive 5 year warranty.



1395	1FJ 958 040-021 (ECE Ref. 20)				
1396	1FJ 958 040-061 (ECE Ref. 30)  PENCIL BEAM				
Mounting	Upright or pendant				
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts				
Power Consumption	25W				
Maximum Luminous Intensity	1395: 96,000 candela 1396: 145,000 candela				
Protection	Reverse polarity and transient spike protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Cable Length	Pre-wired with 2.5m of tinned multi-core cable				
Compliance	<u>E</u> 4 2909 F	R10/04 💩			
	1395: E24 0008 I	R112/01 Ref. 20			
	1396: 🖾 0009 I	R112/01 Ref. 30			
Contents	1 x LED Light Bar 350 2 x Plastic mounting brackets 1 x Instruction bookle				



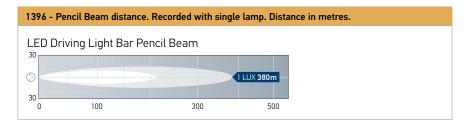


Mounting brackets allow rotation of driving light.

Mounting brackets can be positioned to suit most vehicle installations.

Plastic single mounting bracket - Disassembled view

# 1395 - High Beam distance. Recorded with single lamp. Distance in metres. LED Driving Light Bar High Beam 1 LUX 310m 30 1 LUX 310m

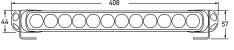














1395HD	1FJ 958 040-031 (ECE Ref. 20)				
1396HD	1FJ 958 040-041 (ECE Ref. 30) PENCIL BEAM				
Mounting	Upright or pendant				
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts				
Power Consumption	25W				
Maximum Luminous Intensity	1395HD: 96,000 candela 1396HD: 145,000 candela				
Protection	Reverse polarity and transient spike protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Cable Length	Pre-wired with 2.5m of tinned multi-core cable				
Compliance	E4 2909 R10/04				
Contents	1 x LED Light Bar 350 2 x HD mounting brackets 1 x Instruction booklet				

LED Light Bar 350 - HD Bracket

This innovative HELLA LED Light Bar 350 is the first such lamp with a lightweight body manufactured entirely from non corrosive, thermally conductive high performance plastics. This aerodynamic powerhouse features 12 durable high performance automotive grade LEDs and a maximum luminous intensity of 145,000 candela with a mere power consumption of only 25W.

The dust and waterproof Light Bar comes in two different beam patterns - High Beam (Ref 20) and Pencil Beam (Ref 30).

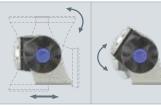
The hermetically sealed and submersible Light Bar features a Multivolt™ circuit for optimum brightness at input voltages from 9V to 33V, is fully road legal with ECE approval and comes with a comprehensive 5 year warranty.

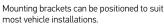
The heavy duty HD brackets are made of stainless steel, ultra durable and corrosion resistant. The perfect choice for on or off road applications.



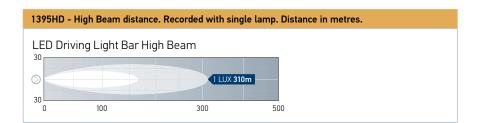
- Disassembled view

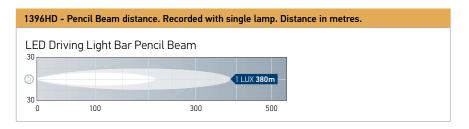












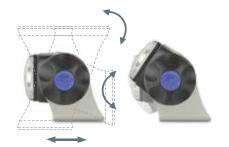
#### LED Light Bar 470 HD Bracket

The dust and waterproof Light Bar comes in two different beam patterns - High Beam (Ref. 25 with 1 lux at approx. 330 metres) and Pencil Beam (Ref. 37.5 with 1 lux at approx. 410 metres). Weighing only 950g the Light Bar is particularly popular for roof mount applications on ATV's and off-road vehicles.

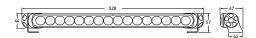
The non corrosive, thermally conductive housing is highly resistant to degradation and due to its slim profile, this streamline Light Bar is ideal for applications where aerodynamic styling is a valued attribute. The flexible, adjustable mounting system ensures easy installation. The Light Bar features a  $Multivolt^{\text{TM}}\ circuit\ for\ optimum\ brightness\ at$ a wide range of input voltages from 9V to 33V and is fully road legal with ECE approval.



LED Light Bar 470 - High Beam



Mounting brackets can be positioned to suit most vehicle installations.









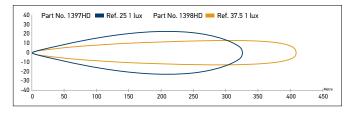


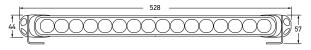




Compl	iance
AD	R
COMPLI	ANCE

1397HD	1FJ 958 130-121 (ECE Ref. 25)				
1398HD	1FJ 958 130-021 (ECE Ref. 37.5) PENCIL BEAM				
Mounting	Upright or pendant				
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts				
Power Consumption	35W				
Maximum Luminous Intensity	1397HD: 113,000 candela 1398HD: 166,000 candela				
Protection	Reverse polarity and transient spike protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Cable Length	Pre-wired with 2.5m of tinned multi-core cable.				
Compliance	1397HD 1398HD	©24 1947 ©24 0012 ©24 0013	R10/05 R112/01 R112/01	<b>A</b> Ref. 25 Ref. 37.5	
Contents	2 x HD mo	ght Bar 470 unting bracke tion booklet	ts		













١	Housing
	174
	CORROSION
,	PROOF

1599HD	1GJ 958 130-431 – (Close Range and Long Range)		
Mounting	Upright or pendant		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts		
Power Consumption	Combined: 36W Close/Long Range: 18W		
Maximum Luminous Intensity	77,000 candela		
Max. Light Output	2200 lumens		
Protection	Reverse polarity and transient spike protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of tinned multi-core cable		
Lens Material	High impact and chemical resistant Nylon (PA12) lens		
Accessories	8032 Number plate bracket light bar 470 - Single Lamp 8033 Number plate bracket light bar 470 - Twin lamp 8HG 958 128-811 HD double mount stainless steel feet (one pair) 8HG 958 139-071 HD single spare end bracket kit 8XS 958 337-021 LED Light Bar - Clear protective cover 8XS 958 337-111 LED Light Bar - Protective cover LED Light Bar - Protective cover		
Compliance	<b>△</b>		
Contents	1 x LED Light Bar 470 2 x HD mounting brackets 1 x Instruction booklet		

# LED Light Bar 470 - Combi Lamp HD Bracket

The LED Light Bar 470 Combi is a unique work lamp offering three light options: close range, long range or combined - all in a single light bar. The lamp is a great addition to any ute, ATV or off-road vehicle.

Only 1kg of weight means less stress on mounting locations and the low profile design will not restrict cooling airflow when fitted to the front of a vehicle - which can be a problem with larger lights. Don't be fooled by its size though, this light bar certainly punches above its weight with its long distance and spread light output. Multivolt™ circuitry means the lamp can be used with both 12V or 24V DC systems, whilst only consuming 36W. Any input between 9V to 33V will give optimum brightness.

The adjustable mounting system ensures for easy installation and flexibility for any orientation. Providing unmatched corrosion resistance due to an innovative thermally conductive polymer housing, and the toughness of a UV, chemical and impact resistant nylon (PA12) lens. The Combi Lamp is the natural choice when exceptional durability and long term reliability in demanding environments is needed.









- Disassembled view

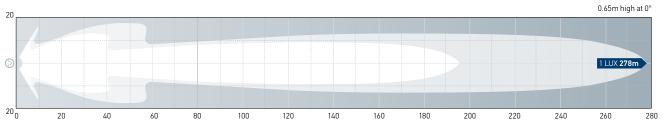
Mounting brackets can be positioned to suit most vehicle installations.



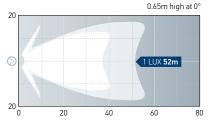




#### Combi Light Bar 470 - Combined (Close Range and Long Range)

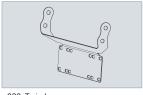


#### Combi Light Bar 470 - Close Range





Number plate bracket light bar 470 - Mounted upright or pendant (Depending on your vehicle)



033 Twin Lamp Number plate bracket light bar 470 - Mounted upright or pendant (Depending on your vehicle)



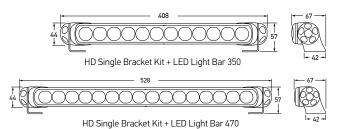
Mounted on vehicle

#### **LED Light Bar**

#### - HD Single Bracket Kit

These easy to install heavy bracket kits made to suit the LED Light Bar range and can be mounted upright or pendant to accommodate most vehicle installations. The smooth brackets simply clip onto the ends of the Light Bar. The nuts, bolts and mounting brackets are made from marine grade 316 stainless steel and come with anti-theft screw caps.





#### 8HG 958 139-841

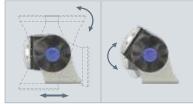
Kit Contents: (Lamp not included)

- 2 x Stainless Steel Mounting Feet 2 x Stainless Steel M8 x 20mm Cap Screws 2 x Stainless Steel M8 Nylon Lock Nuts
- 2 x End Adaptors

- 2 x Friction Washers
- 2 x End Clamps
- 2 x Screw Caps

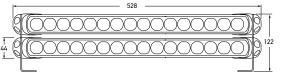


HD Single Bracket Kit + LED Light Bar 350



Mounting brackets can be positioned to suit most vehicle installations.

HD Double Bracket Kit + 2 LED Light Bar 350



HD Double Bracket Kit + 2 LED Light Bar 470

#### 8HG 958 139-851

Kit Contents: (Lamps not included)

**LED LIGHT BAR 350** 

- 2 x Stainless Steel Double Mounting Feet 4 x Stainless Steel M8 x 20mm Cap Screws 4 x Stainless Steel M8 Nylon Lock Nuts
- 4 x End Adaptors

1395HD + 1396HD == 1 lux

Beam Patterns - Beam distance (m)

100

150





4 x Friction Washers 4 x End Clamps 4 x Screw Caps

600

550



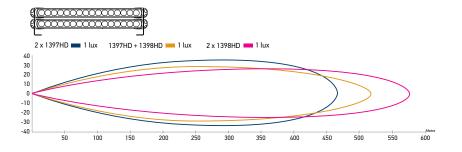
LED Light Bar

- HD Double Bracket Kit

HD Double Bracket Kit + 2 x LED Light Bar 350



LED LIGHT BAR 470

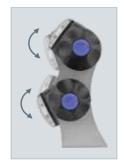


2 x 1396HD = 1 lux

400

350

450



Mounting brackets allow rotation of Light Bar.

#### Double stainless steel mounting feet



#### 8HG 958 128-811 - Suits 350 and 470 LED Light Bars

Includes Double Stainless Steel Mounting Feet (one pair) to suit LED Light Bar

#### Single Spare bracket Kit



Single spare bracket for one end (no mounting feet)

#### 8HG 958 139-071

Kit Includes: 1 x Stainless Steel M8 x 20mm Cap Screw

1 x Stainless Steel M8 Nylon Lock Nut

1 x End Adaptor 1 x Friction Washer 1 x End Clamp

1 x Screw Cap

#### **LED Light Bar Protective Covers**

Whether you want to protect your Light Bar or make your vehicle look unique, we have the Protective Covers you need for the job.

The amber and black covers give your vehicle a distinctive appearance that's sure to get attention and the amber cover is great during foggy conditions as it reduces glare and reflection.

8XS 958 336-021 - LED Light Bar 350 Range	CLEAR
8XS 958 336-031 - LED Light Bar 350 Range	AMBER
8XS 958 336-111- LED Light Bar 350 Range	BLACK
8XS 958 337-021 - LED Light Bar 470 Range	CLEAR
8XS 958 337-031 - LED Light Bar 470 Range	AMBER
8XS 958 337-111 - LED Light Bar 470 Range	BLACK





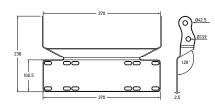




Black Protective Covers on 470 and 350 Range lamps

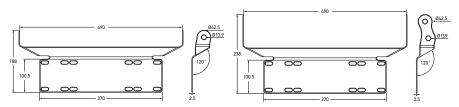


## 370 0425 0435 100.5 255



NUMBER PLATE BRACKET LIGHT BAR 350		
8030	8HG 014 075-011 – Single Mount	
8031	8HG 014 075-021 – Twin Mount	

To suit the LED Light Bar 350 Work Lamp Range. Suits standard Australian, New Zealand and European number plates.



NUMBER PLATE BRACKET LIGHT BAR 470		
8032	8HG 014 075-031 – Single Mount	
8033	8HG 014 075-041 – Twin Mount	

To suit the LED Light Bar 470 Work Lamp Range. Suits standard Australian, New Zealand and European number plates.

#### LED Light Bar Number Plate Brackets

The sleek and clean Number Plate Bracket has been designed for quick and easy installation.

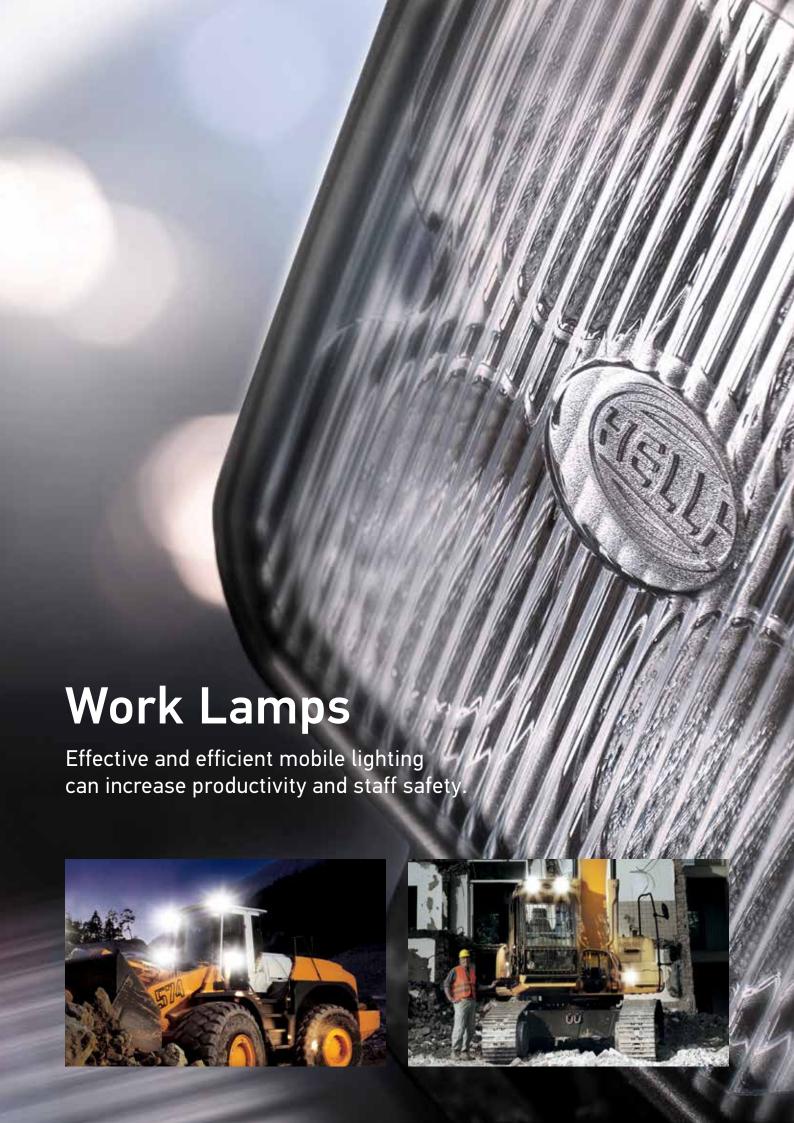
Depending on your vehicle the Light Bar can be mounted upright or pendant.











# Contents

# Work Lamps

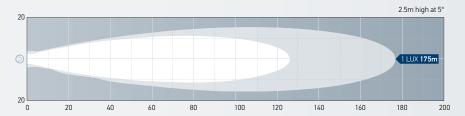
Halogen Flood Lamps	88
Halogen Hand Held Lamps1	90
Halogen Reversing Spot Lamps 1	89
Halogen Work Lamps186-1	89
LED Hand Held Lamps 1	85
LED Reversing Spot Lamps182-1	84
LED Work Lamps151-1	81
Snare Parts and Δccessories 1	91

### ILLUMINATION COMPARISONS

Work lamps can be compared by using an informative isolux lighting diagram. These diagrams display the projected light pattern on a surface in the form of isolux lines (lines of equal light intensity). To compare isolux diagrams, various criteria such as installation height, inclination angle and lux scale must be taken into account. An objective comparison is inaccurate if the criteria differ from one another. Comparing diagrams with different colour scales can be easily misinterpreted.

#### Long Range

Narrow beam range designed to illuminate distant objects between 60m to 200m (depending on lamp installation, installation height and inclination angle).

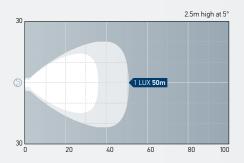


#### **Isolux Lighting Diagram**

Isolux diagrams display the projected light pattern on a surface in the form of isolux lines (lines of equal light intensity).

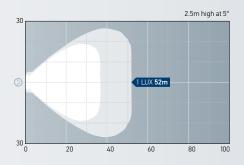
#### Close Range

Spread beam designed to illuminate an area near the vehicle, range approx. 20m to 60m (depending on installation height and inclination angle).



#### Flood

Ultra-wide spread beam designed to illuminate a large area adjacent to the vehicle, typically emitting an extra wide beam (over  $45^{\circ}$  each side).







#### **ELIVER**

#### The Light Comparison Tool for Work Lamps

The ELIVER tool allows you to easily test and compare our products against each other in a realistic environment. This lets you find the perfect work lights or auxiliary lights for your individual requirements. You can conveniently compare different technologies, such as halogen, Xenon and LED against each other. You can view the light distribution on a farm track, on a street or under off-road conditions.

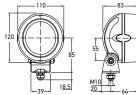
ELIVER also provides you with all the relevant information about performance and technical specifications. This includes information such as the light range, width and intensity. As a special service, you can call up the respective light range diagram or download brief information about the product as a PDF at any time.

Visit hella.com/eliver and try it yourself.

Close Range Mega Beam Gen. III

Mega Beam Gen. III LED Multivolt Work Lamps feature 4 high performance white LEDs (6500K) providing consistent close range illumination with 12 or 24V DC systems. Highsheen metallised Free-Form (FF) reflector and clear glass lens. Housed in an impact-resistant aluminium die-cast and UV plastic housing, fully sealed for an ultra long service life in demanding high vibration environments.

LED Work Lamp















1539LED	1GM 996 136-312 🖿 CLO	SE RANGE	
Mounting	Upright, Side or Pendant		
Voltage	Multivolt™ 9-33V DC		
Power Consumption	13W		
Max. Light Output	800 lumens		
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	2 metres		
Housing	Aluminium		
Lens Material	Glass		
Compliance	<b>⚠</b> ED ECE-R10 C€		

# 20 2.5m high at 10° 1 LUX 50m 20 20 40 60





All dimensions in mm

		All dimensions in mm.
HM1590WB	1GA 910 060-021	CLOSE RANGE
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-64V DC	
Power Consumption	6W	
Max. Light Output	900 lumens	
Temperature Range	-40°C to +60°C	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS) Fully sealed against dust and moisture to IP6K7 and IP6K	9K
Housing	Aluminium	
Lens Material	Polycarbonate	
Accessory	9.1537.08 Universal Magnetic Mounting Bracket ①	
Compliance	<u>&amp;</u>	

#### Compact LED Work Lamp

The Compact LED Work Lamp is a light weight close range light designed for general illumination in areas where physical restraints in mounting locations exist.

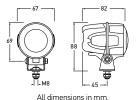




#### Module 50 LED Work Lamp

The smallest Work Lamp in the HELLA range. Powerful and ultra-compact, Module 50 LED is the perfect choice for limited space set ups. The single multichip LED (6500K) light output is 800 lumens which is well suited to closerange illumination. A specially developed nylon (PA12) lens system concentrates the light and distributes it to the range of operation. The integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating with voltage fluctuations between 9V and 50V DC.











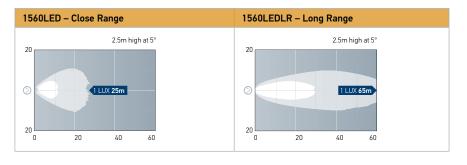






51 Society			
1560LED	1G0 995 050-001		CLOSE RANGE
1560LEDLR	1G0 995 050-021		LONG RANGE
Mounting	Stainless-steel bracket for Upright or Pendant mounting		
Voltage	Multivolt™ 9-50V DC * not suitable for 48V DC fo (max. vehicle system voltage 42V DC)	rklifts	
Power Consumption	15W		
Max. Light Output	800 lumens		
Temperature Range	-40°C to +50°C		
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection		
Housing	Aluminium		
Lens Material	Nylon (PA12)		
Cable Length	Integrated DT Socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)		
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres		
Accessory	9.1517.08 Universal Pedestal Mounting Bracket ①		
Compliance	<u>&amp;</u>		



















All dimensions in mm.

Voltage	Multivolt™ 9 – 52 V DC (Suitable for 48V DC forklift operating systems)	
Power consumption	15 W	
Light source	1 Coloured (blue) High-Power LED	
Housing material	Aluminium die cast	
Mounting	Pendant and upright mounting	
Connection	Integrated DT Socket. DT Pigtail Loom 2.0 metres to be ordered separately 9.1551LED.06 (optional)	
Protection	Overheating and reverse polarity protection	
Protection class	IP 6K9K, IP 6K8	
Type approval	E) ECE-R10 🙆	
Housing	Aluminium	
Lens	Nylon (PA12)	
Weight	340 g	





#### The Module 50 LED Blue Spot Headlamp

The Module 50 LED Blue Spot Headlamp is designed as a warning light to optically warn other vehicles or passers-by of an approaching forklift – increasing occupational safety and helping to prevent accidents.

The special lens optic focuses the **blue LED light beam** to project a circle-shaped warning point on the ground.



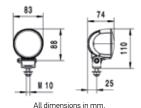


#### Module 70 Gen. IV **LED Work Lamp**

With 3 x high performance multichip LEDs, the Module 70 Gen. IV LED Work Lamp is rated to **2500 lumens** while consuming just **30** watts, with a colour temperature of 6500K.

Multivolt™ compatible and can therefore be operated with a 12V or 24V DC power supply. Integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating when operating voltage fluctuates between 9V and 33V DC. In addition, temperature sensors protect the Work Lamp from overheating.





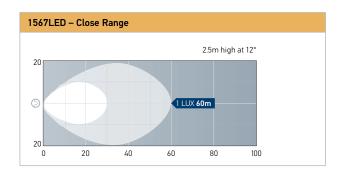


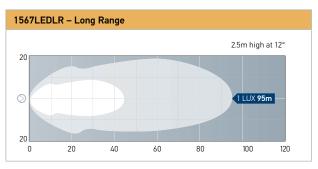






1567LED	1G0 996 476-001	CLOSE RANGE	
1567LEDLR	1G0 996 476-011	LONG RANGE	
Mounting	Upright or Pendant		
Voltage	Multivolt™ 9-33V DC		
Power Consumption	30W		
Max. Light Output	2500 lumens		
Temperature Range	-40°C to +50°C		
Cable Length	2 metres		
Protection	Reverse polarity and voltage spike protection IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K8		
Housing	Aluminium		
Lens Material	Glass		
Compliance	<b>ℰ</b> E ECE-R10 C€		





Close Range M70 Gen. III

The Module 70 Gen. III LED Work Lamp provides **800 lumens**. Equipped with **4 x high performance LEDs (6500K)**,

high-sheen metallised Free-Form (FF) reflector and clear glass lens for consistent close-range illumination. Housed in an impact-resistant aluminium die-cast housing, fully sealed for an ultra-long service life in demanding high vibration environments.

**LED Work Lamp** 







All dimensions in mm.



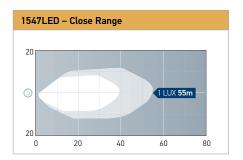








1547LED	1G0 996 276-451 CLOSE RANGE			
Mounting	Upright, Side or Pendant			
Voltage	Multivolt™ 9-33V DC			
Power Consumption	13W			
Max. Light Output	800 lumens			
Temperature Range	-40°C to +50°C	-40°C to +50°C		
Cable Length	2 metres			
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS) Fully sealed against dust and moisture to IP6K9K and IPX7			
Housing	Aluminium			
Lens Material	Glass			
Compliance	<b>⚠</b> (E) ECE-R10 (€			
Accessories	HM70PR Pipe Mount Tube Attachment (rotating) 1 9.1517.08 Universal Pedestal Mounting Bracket 2			



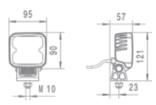


#### RokLUME 155 TP LED Work Lamp

The RokLUME 155 TP LED is a robust Work Lamp in a universal, attractive design. The innovative **thermally conductive synthetic material housing** also features cooling fins which ensure the required heat dissipation from the **4** x high-power LEDs.



1GA 996 284-051







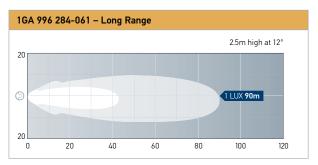




1GA 996 284-051	CLOSE RANGE
1GA 996 284-061	LONG RANGE

Mounting	Upright or Pendant		
Voltage	Multivolt™ 9-33V DC		
Power Consumption	15W		
Max. Light Output	1200 lumens		
Temperature Range	-40°C to +50°C		
Protection	Reverse polarity and voltage spike protection IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K7		
Cable Length	200mm with DT socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)		
Housing	Thermal Conductive Plastic		
Lens Material	PC Polycarbonate		
Compliance	<b>⚠</b> (E) ECE-R10		
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres		



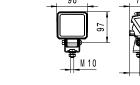












All dimensions in mm.

32

1GA 996 479-02	1	CLOSE RANGE
Mounting	Upright or Pendant 25° Tilt Angle	
Voltage	Multivolt™ 10.5 – 32 V DC	
Power Consumption	18 W	
Light Output	1350 lumens	
Colour Temperature	6500 Kelvin	
Protection	IP 6K9K, IP 6K7	
Connection	DT Connector	
Housing	Aluminium Die Cast	
Lens Material	PC Polycarbonate	
Compliance	ECE-R10	



#### EC018 LED Work Lamp

HELLA's ECO work lamps series lend themselves perfectly as an entry-level model into the world of the HELLA premium segment.

Thanks to its compact size and universal shape, the ECO series can replace virtually all the usual halogen lamps in a simple way.

The EC018 LED work lamp boasts a lighting performance of **1350 lumens** while only consuming **18 watts** of power.



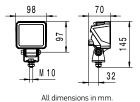
#### EC026 LED Work Lamp

HELLA's ECO work lamps series lend themselves perfectly as an entry-level model into the world of the HELLA premium segment.

Thanks to its compact size and universal shape, the ECO series can replace virtually all the usual halogen lamps in a simple way.

The ECO26 LED work lamp boasts a fantastic lighting performance of **2000 lumens** while only consuming **26 watts** of power.















1GA 996 579-02	1	CLOSE RANGE
Mounting	Upright or Pendant 25° Tilt Angle	
Voltage	Multivolt™ 10.5 – 32 V DC	
Power Consumption	26 W	
Light Output	2000 lumens	
Colour Temperature	6500 Kelvin	
Protection	IP 6K9K, IP 6K7	
Connection	DT Connector	
Housing	Aluminium Die Cast	
Lens Material	PC Polycarbonate	



ECE-R10

Compliance















Αll	dime	ensions	in	n

1551LED	1GA 996 188-00	1	CLOSE RANGE
1551LEDPMMA	1GA 996 188-02	– Nylon (PA12)	CLOSE RANGE
Mounting	Upright or Pendant		
Voltage	Multivolt™ 9-33V D0		
Power Consumption	18W		
Max. Light Output	850 lumens		
Temperature Range	-40°C to +50°C		
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Integrated DT Socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)		
Housing	Aluminium		
Lens Material	Glass – 1551LED or Nylon (PA12) – 1551LEDPMMA		
Compliance	E) ({ 💩		
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres	
Accessories	9.1517.08 9.1537.08	Universal Pedestal Mounting Bracket ① Universal Magnetic Mounting Bracket ②	



#### Power Beam 1000 **LED Work Lamp**

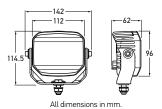
LED Work Lamp with 6 high performance **LEDs (6500K)** for a powerful white light. Features robust aluminium die-cast housing, stainless steel bracket and Free-Form (FF) reflector with clear lens for consistent close range illumination. Integrated DT socket electrical connection.



# Power Beam 1000 LED Work Lamp - Heavy Duty

LED Work Lamp with 6 high performance white LEDs (6500K) for a powerful white light. Features robust aluminium die-cast housing, stainless steel heavy-duty bracket and Free-Form (FF) reflector with clear hardened glass lens for consistent close-range illumination. Integrated DT socket electrical connection.









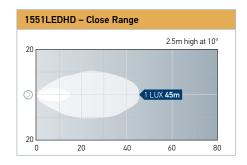








1551LEDHD	1GA 996 188-011		CLOSE RANGE
Mounting	Upright or Pendant		
Voltage	Multivolt™ 9-33V DC		
Power Consumption	18W		
Max. Light Output	850 lumens		
Temperature Range	-40°C to +50°C		
Protection		oltage spike protection nst temporary water immersion) ainst dust and high-pressure/steam jet o	cleaning)
Cable Length	Integrated DT Socket (Optional 2.0 metre DT	Pigtail Loom to be ordered separately)	
Housing	Aluminium		
Lens Material	Glass		
Spare Part	9.1551LED.06 D	Γ Pigtail Loom, 2 metres	
Compliance	E) (6 🙈		

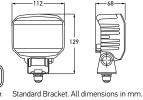












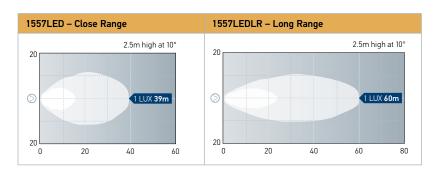






HD Bracket. All dimensions in mm.

1557LEDHD	1GA 996 288-031 – Heavy Duty Bracket	CLOSE RANGE		
1557LED	1GA 996 288-011	CLOSE RANGE		
1557LEDLR	1GA 996 288-001	LONG RANGE		
Mounting	Upright or Pendant			
Voltage	Multivolt™ 9-33V DC			
Power Consumption	22W			
Max. Light Output	1300 lumens	1300 lumens		
Protection	Reverse polarity protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Housing	Aluminium			
Lens Material	Nylon (PA12)			
Cable Length	Integrated DT Socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)			
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres			
Accessory	9.1517.08 Universal Pedestal Mount			
Compliance	<b>▲</b> (€)			



#### Power Beam 1500 **LED Work Lamp**

Premium LED Work Lamp with  $\mathbf{6} \mathbf{x} \mathbf{high}$ performance LEDs (6500K). Aluminium housing. Light output rated at 1300 lumens. nylon (PA12) lens.





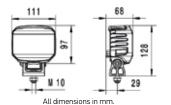




#### RokLUME 190 TP Work Lamp

The compact RokLUME 190 TP is an ideal LED work lamp that combines a powerful light output with a practical design.













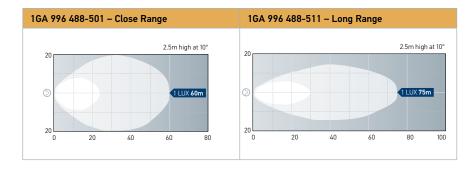






1GA 996 488-501	CLOSE RANGE
1GA 996 488-511	LONG RANGE

Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	26W	
Max. Light Output	1850 lumens	
Colour Temp.	5000 K	
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Integrated DT Socket. Includes DT Plug	
Housing	Thermally Conductive Plastic	
Lens Material	Nylon (PA12)	
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres	
Compliance	E) ({ 💩	









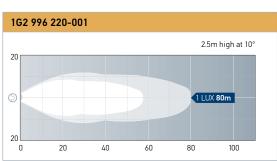


The R120S LED Work Lamp is designed with a moulded handle and swivel base mounting bracket, which enables the lamp to be rotated in almost any direction. It also has a convenient on off switch at the rear of the lamp.





1G2 996 220-00	1	CLOSE RANGE
Mounting	Swivel base mounting	
Voltage	Multivolt™ 10-30V DC	
Power Consumption	23W	
Max. Light Output	1500 lumens	
Colour Temp.	6500 K	
Protection	Reverse polarity protection, overheating protection	
Housing	Aluminium	
Temperature range	- 40 °C to + 50 °C	
Protection	IP 6K7, IP 6K9K	
Compliance	ECE-R10 🙆	



#### LED Ultra Beam Gen. II Work Lamps

Introducing the latest generation of the LED Ultra Beam range. The light-optimised Ultra Beam LED Gen. II has a much higher light output of  $4400\ lumens$  and can replace Xenon Work Lamps.



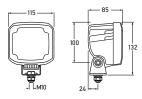
1566LED - Close Range



1566LEDLR - Long Range



1566LEDPB - Pencil Beam







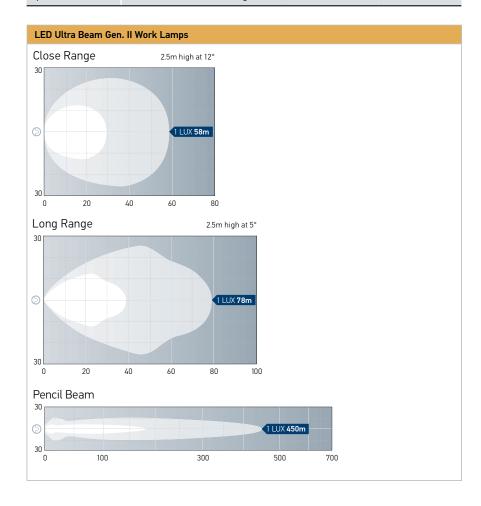








1566LED	1GA 995 606-001	CLOSE RANGE
1566LEDLR	1GA 995 606-011	LONG RANGE
1566LEDPB	1GA 995 606-021	PENCIL BEAM
Voltage	Multivolt™ 9 – 33 V DC	
Power consumption	50 W	
Light output	4400 lumens	
Light source	8 High-Power LEDs	
Colour temperature	6500 K	
Housing material	Aluminium die cast	
Lens material	Nylon (PA12)	
Connection	Integrated DT socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Mounting	Pendant and upright mounting	
Protection	Overheating and reverse polarity protection	
Protection class	IP 6K9K, IP 6K8	
Type approval	E) ECE-R10 🙆	
Weight	1.040 g	
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres	

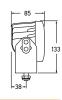


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info.au@hella.com







1GA 995 606-541 ZEROGLARE		ZEROGLARE
1GA 995 606-501		CLOSE RANGE
1GA 995 606-511		LONG RANGE
1GA 995 606-521 PENCIL BEAM		PENCIL BEAM
Mounting	Upright or Pendant. Heavy Duty bracket resists vibration	
Voltage	Multivolt™ 9 – 32V DC	
Power Consumption	Max. 56W	
Max. Light Output	4400 lumens	
Colour Temp.	5000 K	
Protection	Protection Reverse polarity protection. Transient spike circuit protection IP 6K8 (Protection against dust and temporary water immersion) IP 6K9K / IP6K8 (Protection against dust and high-pressure/steam jet cleaning)	
Housing	Aluminium die cast. NanoSafe non-stick / easy to clean surface coating	
Lens Material	Nylon (PA12)	
Cable Length	able Length Integrated DT Socket	
Compliance		

#### RokLUME 280 N LED Work Lamps

Compact size suitable for all mining machinery. Heavy duty bracket for high vibration requirements. Corrosion resistant NanoSafe coating.



1GA 995 606-541 ZEROGLARE





1GA 995 606-511 Long Range



The innovative **ZERO**GLARE optical system ensures all emitted light is only directed below the horizontal plane where it is needed and not into oncoming operators' field of vision.

Visit hellazeroglare.com for more information.



Sharp cut off beam for reduced glare. Excellent for use in foggy or dusty conditions.

Scan code for video on ZEROGLARE:





#### RokLUME 380 N LED Work Lamps

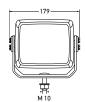
Developed specifically for mining applications. Heavy duty bracket resists against vibration. Light distribution optimised for mining machinery. Light output (measured): up to **7800 lumens**.

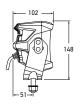


1GA 996 197-001 ZEROGLARE



1GA 996 197-041 Pencil Beam







1GA 996 197-001 ZEROGLARE		
1GA 996 197-011 CLOSE RANGE		CLOSE RANGE
1GA 996 197-021		LONG RANGE
1GA 996 197-031		FLOOD OPTIC
1GA 996 197-041 PENCIL BEAM		PENCIL BEAM
Mounting	Upright or Pendant. Heavy Duty bracket resists vibration	
Voltage	24V DC	
Power Consumption	Max. 84W	
Max. Light Output	7800 lumens	
Colour Temp.	5000 K	
Protection	Reverse polarity protection. Transient spike circuit protection. IP 6K8 (Protection against dust and temporary water immersion) IP 6K9K / IP6K8 (Protection against dust and high-pressure/steam jet cleaning)	
Housing	Aluminium	
Lens Material	Hard-coated PC	
Cable Length	Integrated DT Socket	
Compliance	<b>(€</b> CISPR 25 Class 5	
Accessory	9.1551LED.06 DT Pigtail Loom, 2 metres	



The innovative **ZERO**GLARE optical system ensures all emitted light is only directed below the horizontal plane where it is needed and not into oncoming operators' field of vision.

Visit hellazeroglare.com for more information.



Sharp cut off beam for reduced glare. Excellent for use in foggy or dusty conditions.

Scan code for video on ZEROGLARE:





# Dimmable: Internal Dimmer



Lens Material

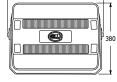
Accessory

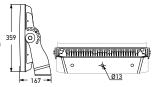
Compliance





**GMD** 





1GJ 011 872-221 CLOSE RANGE		
1GJ 011 872-231 LONG RANGE		LONG RANGE
1GJ 011 872-241 EXTRA WIDE		
Mounting	Upright or Pendant	
Voltage	Optimum brightness at input voltages from 46 to 53 volts	
Power Consumption	300W max. (6.25 @ 48V DC)	
Actual Light Output	28000 lumens	
Operating Temperature Range	-40°C to +50°C	
LED Colour Temperature 5700 K		
Protection	Reverse polarity, transient spike and over voltage protection IP 6K9K (Fully sealed against dust and high-pressure/steam jet cleaning) Advanced thermal management	
Soft Start (PIN 3)	Reduces start-up inrush ramp-up (100% brightness in 4 seconds)	
Connection	4 Pin Deutsch plug	

High impact and chemical resistant Nylon (PA12) lens

♨

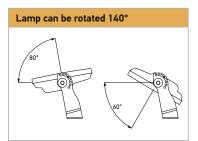
1m of sheathed cable - 4 Pin Deutsch plug

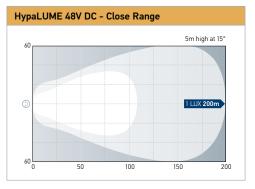


8KB 958 304-001

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#### HypaLUME 48V DC RFCommSafe™ LED Flood Light - Heavy Duty

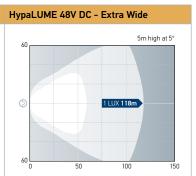
The HypaLUME 48V DC RFCommSafe™ has been designed for applications where high output lighting in extreme environments is required. The lamp produces a net output of **28000 lumens** whilst only consuming **300W**.

The LEDs have a colour temperature of **5700K** to provide a near daylight work environment that is optimal for fatigue avoidance and high alertness. The LED driver electronics ensure light output remains stable over a wide range of voltage variations. The built-in soft start feature eliminates a high in-rush current at start up. HypaLUME **48V DC** is designed to RFCommSafe™, ultra-low emission (EMC) requirements surpassing international standards by a wide margin.





Accessory Cable - 8KB 958 304-001



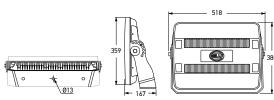
#### HypaLUME 24/48V DC LED Flood Light - Heavy Duty

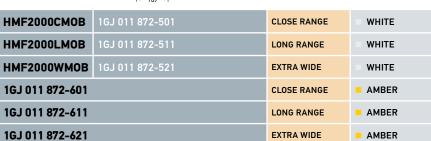
The HypaLUME 24/48V DC has been designed for applications where high output lighting in extreme environments is required. The lamp produces a net output of 25000 lumens whilst consuming less than **260W**. Comprehensive sealing and anti-corrosion measures have been taken to ensure this lamp withstands the toughest conditions. The premium aluminium housing is corrosion resistant with a non-stick and easy to clean surface coating. The LEDs have a colour temperature of **5700K** to provide a near daylight work environment that is optimal for fatigue avoidance and high alertness. The LED driver electronics ensure light output remains stable over a wide range of voltage variations. The HypaLUME is also protected from reverse polarity and short circuit faults.











Mounting	Upright or Pendant
Voltage	Optimum brightness at input voltages from 22 to 52 volts
Power Consumption	260W max. (10A @ 24V DC)
Actual Light Output	25000 lumens
Operating Temperature Range	-40°C to +50°C
LED Colour Temperature	5700 K
Protection	Reverse polarity, transient spike and over voltage protection IP 6K9K (Fully sealed against dust and high-pressure/steam jet cleaning) Advanced thermal management
Cable Length	Supplied with 1.8m of easy plug-in sheathed cable
Connection	4 Pin Deutsch plug
Lens Material	High impact and chemical resistant Nylon (PA12) lens
Compliance	( € F© ISO 13766 CISPR25



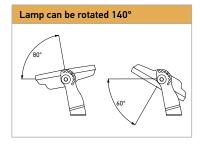


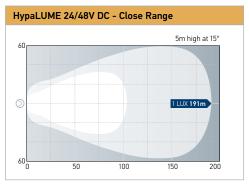


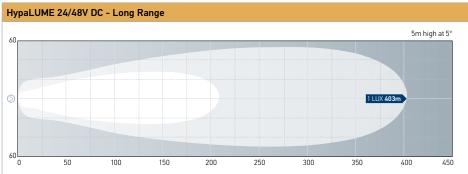


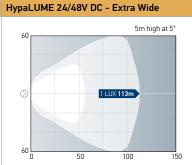


1.8m Fly Lead is Included





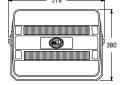








**GMD** 



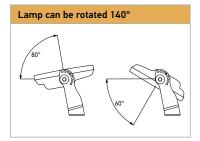


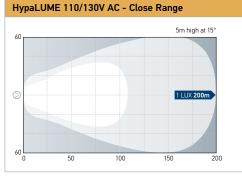


1GJ 958 334-011	CLOSE RANGE	WHITE
1GJ 958 334-021	LONG RANGE	WHITE
1GJ 958 334-031	EXTRA WIDE	WHITE
1GJ 958 334-111	CLOSE RANGE	AMBER
1GJ 958 334-121	LONG RANGE	AMBER
1GJ 958 334-131	EXTRA WIDE	AMBER

Mounting	Upright or Pendant
Voltage	Optimum brightness at input voltages from 100 to 240V AC
Power Consumption	300W max.
Actual Light Output	28000 lumens
Operating Temperature Range	-40°C to +50°C
LED Colour Temperature	5700 K
Protection	IP 66 (Protection against dust and high-pressure water jets) IP 67 (Protection against dust and temporary water immersion) Advanced thermal management
Cable Length	Supplied with 2.0m of easy plug-in sheathed cable
Connection	Wieland RST Mini - 16A
Lens Material	High impact and chemical resistant Nylon (PA12) lens
Compliance	AS/NZS 60598.2.5 <b>( €                                  </b>







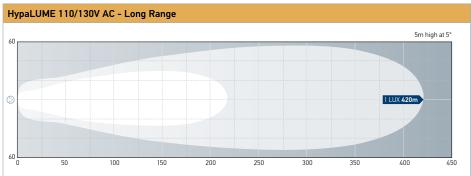
#### HypaLUME 110/230V AC LED Flood Light - Heavy Duty

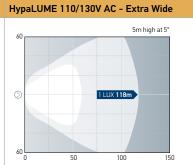
The HypaLUME 110/230V AC has been designed for applications where high output lighting in extreme environments is required. The lamp produces a net output of 28000 lumens at a voltage input range of 100-240V AC whilst only consuming 300W. Comprehensive sealing and anti-corrosion measures have been taken to ensure this lamp withstands the toughest conditions. The premium aluminium housing is corrosion resistant with a non-stick and easy to clean surface coating. The LEDs have a colour temperature of 5700K to provide a near daylight work environment that is optimal for fatigue avoidance and high alertness.





Supplied with 2.0m of easy plug-in sheathed cable.





#### Oval 100 LED Thermo Pro Work Lamps

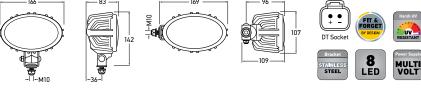
The HELLA Oval 100 LED Thermo Pro is the latest addition to the Oval 100 Work Lamp family. This Work Lamp has an innovative corrosion resistant thermally conductive **plastic housing** with cooling fins on the back to ensure sufficient heat dissipation from the  $\bf 8 \ x \ high-power \ LEDs$ . Available with an upright mounting swivel base and a side mounting swivel base.



1568LED - Upright or Pendant, Swivel Base



1568LED-SM - Side Mount , Swivel Base



1568LED	1GA 996 661-501 – Upright or Pendant, Swivel Base
1568LED-SM	1GA 996 661-031 – Side Mount , Swivel Base
Voltage	Multivolt™ 9 – 33 V DC
Power consumption	25 W
Light output	1700 lumens
Light source	8 High-Power LEDs
Colour temperature	6500 K
Housing material	Thermally conductive plastic
Lens Material	Polycarbonate
Mounting	Upright and side mounting
Connection	Integrated DT socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)
Protection	Overheating and polarity protection
Protection class	IP 6K9K, IP 6K8
Compliance	<b>⚠</b> (E) ECE-R10
Weight	660 g
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres

# Oval 100 LED Thermo Pro Work Lamps 2.5m high at 12° 1 LUX **51m** 20 40













All dimensions in mm
----------------------

1558LED	1GA 996 761-001	CLOSE RANGE
1558LEDLR	1GA 996 761-011	LONG RANGE
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	56W (12V DC) 54W (24V DC)	
Max. Light Output	4000 lumens	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection	
Cable Length	Integrated DT Socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres	
Accessory	9.1517.08 Universal Pedestal Mount	
Compliance	<u></u> (€	

## Oval 100 LED Gen. II Work Lamps

High quality aluminium housing and nylon (PA12) lens. Features 8 x high power LEDs (6500K) providing 4000 lumens.



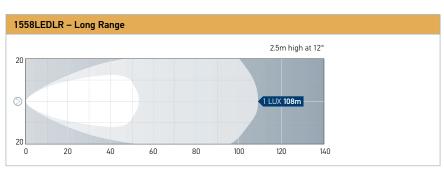




1558LEDLR

#### 1558LED - Close Range 2.5m high at 12° 20 0 1 LUX **100**m 20 20 40 60 80 100 120

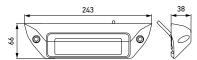




#### **FMS Base**

HELLA FMS Base is a flat and compact LED work lamp with a practical design and a light output of **1200 lumens**. The slim build is a perfect fit for applications in tight spaces and integrates perfectly with the appearance of the whole vehicle.







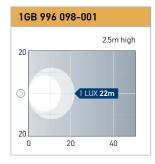








1GB 996 098-00	1
Voltage	Multivolt™ 9 – 32 V DC
Power consumption	14 W
Light output	1200 lumens
Light source	LED
Colour temperature	6500 K
Housing material	Die-cast aluminium, CoroSafe coating
Mounting	Flat surface mounting on the vehicle wall
Connection	500 mm cable
Protection	Overheating and reverse polarity protection
Protection class	IP 6K9K, IP 6K8
Compliance	E) ECE-R10, ADR/GGVSEB



600 g

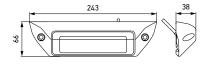
Weight





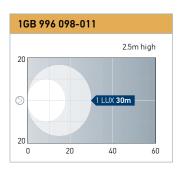






#### 1GB 996 098-011

Voltage	Multivolt™ 9 – 32 V DC
Power consumption	28 W
Light output	2500 lumens
Light source	LED
Colour temperature	6500 K
Housing material	Die-cast aluminium, CoroSafe coating
Mounting	Flat surface mounting on the vehicle wall
Connection	500 mm cable
Protection	Overheating and reverse polarity protection
Protection class	IP 6K9K, IP 6K8
Compliance	ECE-R10, ADR/GGVSEB
Weight	600 g



#### **FMS Prime**

HELLA FMS Prime is a flat and compact LED work lamp with a practical design and a light output of **2500 lumens**. The slim build is a perfect fit for applications in tight spaces and integrates perfectly with the appearance of the whole vehicle.





#### BL 470 Red LED Warning Lamp

BL470 Red LED warning lamp is fitted with the VISIOTECH technology. A special lens optic allows the light to converge and become so sharply focused that a strip-shaped warning line is projected onto the ground to create a no-go zone.

















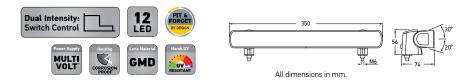
2XD 958 130-661		SPOT BEAM		
Lens	Grilamid Nylon PA12			
Current Consumption	Multivolt™ 9-33 V DC			
Power Consumption	36W Max			
Protection	Reverse polarity and transient spike protection IP 6K7 (Protection against dust and temporary water imme IP 6K9K (Protection against dust and high-pressure/steam			
Operating Temperature	-40°C to 60°C			
Cable Length	Pre-wired with 2.5m of tinned multi-core cable			
Accessories	8HG 958 128-811 Double stainless steel mounting fe	et (one pair)		
EMC Interference	ECE-R10, CISPR 25 Class 5			





Immunity





1GJ 958 040-501		WIDE SPREAD	
1GJ 958 040-551		SPREAD	
Mounting	Upright or Pendant		
Voltage	Multivolt™ 9-33V DC		
Power Consumption	25W		
Max. Light Output	2200 lumens		
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	BL350 2.5 metres of tinned multi-core cable		
Housing	Thermally Conductive Plastic		
Lens Material	Nylon (PA12)		
Compliance	<u></u> € (€		

1GJ 958 040-501 – Wid	le Spread	1GJ 958 040-551 - Spread	
30	2.5m high at 5°	20	2.5m high at 5°
٥	1 LUX 64m	0	1 LUX 82m
30 0 20 40 60	0 80 100	20 0 20 40 60	80 100

#### BL350 LED Work Lamp

The BL350 LED Work Lamp incorporates the latest technology to offer a powerful, durable lighting solution for a multitude of applications.

Featuring energy efficient Multivolt™ technology, this Work Lamp will appeal to applications where energy efficiency and reliability are a must. These lamps offer a formidable net light output of **2200 lumens**.

Designed with Fit and Forget durability in mind, the BL350 LED Work Lamp features a highly impact-resistant lens made of nylon (PA12), a crystal clear polyamide with superior tolerance to chemical and long-term harsh UV exposure, as well as a technologically advanced thermally conductive non-metal housing.







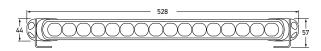


#### LED Light Bar 470 - Combi Lamp HD Bracket

The LED Light Bar 470 Combi is a unique work lamp offering three light options: close range, long range or combined - all in a single light bar. The lamp is a great addition to any Ute, ATV or off-road vehicle.

Only 1kg of weight means less stress on mounting locations, the low profile design will not restrict cooling airflow when fitted to the front of a vehicle - which can be a problem with larger lights. Don't be fooled by its size though, this light bar certainly punches above its weight with its long distance and spread light output. Multivolt™ circuitry means the lamp can be used with both 12V or 24V DC systems, whilst only consuming 36W. Any input between 9 to 33 volts will give optimum brightness.

The adjustable mounting system ensures for easy installation and flexibility for any orientation. Providing unmatched corrosion resistance due to an innovative thermally conductive polymer housing, and the toughness of a UV, chemical and impact resistant nylon (PA12) lens. The Combi Lamp is the natural choice when exceptional durability and long term reliability in demanding environments is needed.











1599HD	1GA 958 130-431 – (Close Range and Long Range)		
Mounting	Upright or Pendant		
Voltage	Multivolt™ 9-33V DC		
Power Consumption	Combined: 36W Close/Long Range: 18W		
Maximum Luminous Intensity	77,000 candela		
Max. Light Output	2200 lumens		
Protection	Reverse polarity and transient spike protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of tinned multi-core cable		
Lens Material	High impact and chemical resistant Nylon (PA12) lens		
Accessories	8032 Number plate bracket light bar 470 - Single Lamp 8033 Number plate bracket light bar 470 - Twin lamp 8HG 958 128-811 HD double mount stainless steel feet (one pair) 8HG 958 139-071 HD single spare end bracket kit 8XS 958 337-021 LED Light Bar - Clear protective cover 8XS 958 337-031 LED Light Bar - Amber protective cover 8XS 958 337-111 LED Light Bar - Protective cover		
Compliance	<u>&amp;</u>		
Contents	1 x LED Light Bar 470 2 x HD mounting brackets 1 x Instruction booklet		









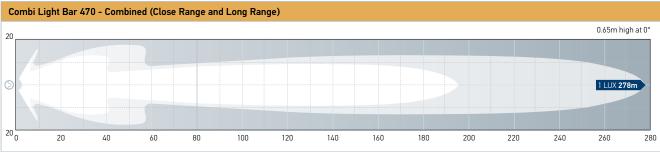
HD single mounting bracket - Disassembled view

Mounting brackets can be positioned to suit most vehicle installations.











#### Double Stainless Steel Mounting Feet





#### 8HG 958 128-811- Suits 350 and 470 LED Light Bars

Includes Double Stainless Steel Mounting Feet (One pair) to suit LED Light Bar

#### 8HG 958 139-071

Kit Includes 1 x Stainless Steel M8 x 20mm Cap Screw

1 x Stainless Steel M8 Nylon Lock Nut

1 x End Adaptor 1 x Friction Washer 1 x End Clamp 1 x Screw Cap

#### Single Spare Bracket Kit



8HG 958 139-071 Single spare bracket for one end (no mounting feet)

#### 5222 8KB 227 670-001 - Wiring Kit - 12V DC Connects one Light Bar only

Content 1 x 12V DV Relay

1 x Blade fuse holder with 15A Fuse

 $1\,x$  Pre-terminated loom and additional terminals for LED Bar connection

\* Connects one Light Bar only

#### LED Bar Wiring Kit - 12V DC

LED Light Bar Wiring Kit supplied with all parts required for installation and detailed instructions.

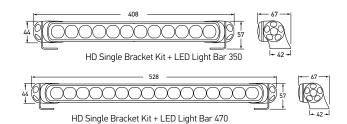


#### **LED Light Bar**

#### - HD Single Bracket Kit

These easy to install heavy bracket kits made to suit the LED Light Bar range and can be mounted upright or pendant to accommodate most vehicle installations. The smooth brackets simply clip onto the ends of the Light Bar. The nuts, bolts and mounting brackets are made from marine grade 316 stainless steel and come with anti-theft screw caps.





#### 8HG 958 139-841

Kit Contents: (Lamp not included)

- 2 x Stainless Steel Mounting Feet
- 2 x Stainless Steel M8 x 20mm Cap Screws
- 2 x Stainless Steel M8 Nylon Lock Nuts
- 2 x End Adaptors

- 2 x Friction Washers
- 2 x End Clamps
- 2 x Screw Caps

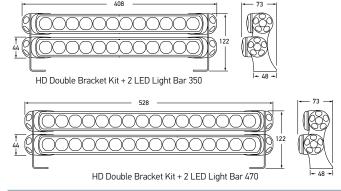


HD Single Bracket Kit + LED Light Bar 350

Mounting brackets can be positioned to suit most vehicle installations.

#### **LED Light Bar** - HD Double Bracket Kit





#### 8HG 958 139-851

Kit Contents: (Lamps not included)

- 2 x Stainless Steel Double Mounting Feet
- 4 x Stainless Steel M8 x 20mm Cap Screws 4 x Stainless Steel M8 Nylon Lock Nuts
- 4 x End Adaptors

- 4 x Friction Washers
- 4 x End Clamps
- 4 x Screw Caps

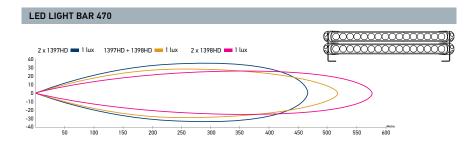


HD Double Bracket Kit + 2 x LED Light Bar 350



Mounting brackets allow rotation of Light Bar.

#### Beam Patterns - Beam distance (m) **LED LIGHT BAR 350** 2 x 1395HD = 1 lux 1395HD + 1396HD = 1 lux 2 x 1396HD = 1 lux 10 -10 -20 -30 600 400 450



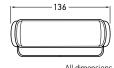








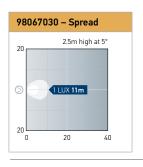






All	dimer	sions	in	mm

98067030	1GA 980 670-421	SPREAD
Mounting	Stainless-steel bracket for Upright or Pendant mounting	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	< 3W	
Max. Light Output	200 lumens	
Protection	Fully sealed against dust and moisture to IP67	
Cable Length	2.5 metres	
Lens Material	Nylon (PA12)	
Housing	Plastic	
Compliance		



#### DuraLED® WL200 Work Lamp

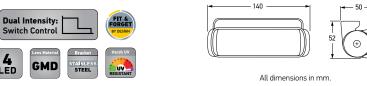
High-intensity LED Work Lamps suitable for interior or exterior general and work area lighting rated at **200 lumens**.

Features compact and lightweight design (only 250g including cable). Equipped with ultra-durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance, and a sturdy stainless-steel mounting bracket, which secures the lamp from both sides whilst allowing easy adjustment of the vertical light beam angle.

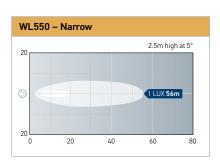








98057330	1GA 980 573-301	NARROW
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	7W	
Max. Light Output	550 lumens	
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Housing	Thermally Conductive Plastic	
Compliance	<u>&amp;</u>	



#### DuraLED® WL550 LED Work Lamp

LED Universal Work Lamps with low profile stainless steel bracket. Lamps may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant nylon (PA12) lens. Option of three light patterns, narrow, spread or wide spread.







#### DuraLED® WL1300 LED Work Lamps - White

These lamps offer a formidable net light output of  ${\bf 1300\ lumens}.$  Designed with Fit and Forget durability in mind, DuraLED® WL1300 features:

- Integrated dual intensity light output circuit;
- A high level of spike protection;
- High impact-resistant nylon (PA12) lens - a crystal clear polyamide with superior tolerance to chemical and UV exposure;
- Technologically advanced thermally conductive non-metal housing;
- Low profile stainless steel bracket for adjustable upright or pendant mounting.













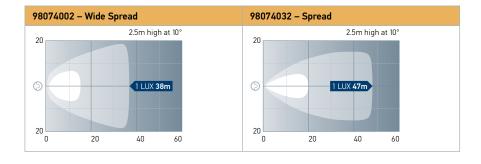








All dimen:	sions in mm.	PROOF	
98074002	1GD 980 740-021	WIDE SPREAD	
98074032	1GD 980 740-321	SPREAD	
Mounting	Stainless-steel bracket for Upright or Pendant mounting		
Voltage	Multivolt™ 9-33V DC		
Power Consumption	High power 18W   Low power 2W		
Max. Light Output	1300 lumens		
Protection	Reverse polarity protection, surge protection, overheating protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	2.5 metres		
Lens Material	Nylon (PA12)		
Housing	Thermally Conductive Plastic		
Compliance			



#### DuraLED® 1000 Spread Beam Work Lamp

The universal, high intensity and extremely energy efficient DuraLED® 1000 Spread Beam Work Lamp is rated at 1000 lumens.

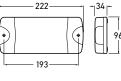
Magnets simply snap the light to any metallic surface and the lamp can be powered from cigarette lighter or DIN plug.

The lens is manufactured from ultra durable nylon (PA12), a revolutionary high performance clear polyamide for extreme impact, UV, chemical and stress resistance.















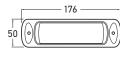






HM1550CIG	1GA 910 057-001	SPREAD BEAM	
Mounting	Universal mounting via neodymium magnets		
Voltage	Multivolt™ 9-33V DC		
Power Consumption	< 12W		
Max. Light Output	1000 lumens		
Protection	IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	1 metre extension cable extends to 8 metres		
Lens Material	Nylon (PA12)		
Compliance	<u>&amp;</u>		

info.au@hella.com







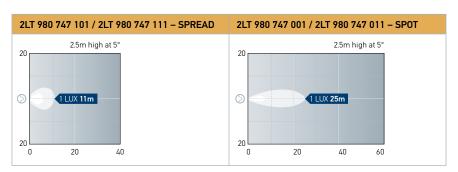




A 11	4:	ensions	-	
Αll	airme	ensions	III	m

2LT 980 747-101	SPREAD BEAM	■ BLACK
2LT 980 747-111	SPREAD BEAM	WHITE
2LT 980 747-001	SPOT BEAM	■ BLACK
2LT 980 747-011	SPOT BEAM	WHITE

Mounting	Recess mounting
Voltage	Multivolt™ 9-33V DC
Power Consumption	< 3W
Max. Light Output	240 lumens
Protection	IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	2.5 metres
Lens Material	Nylon (PA12)
Housing	Plastic
Compliance	<u>&amp;</u>



#### **SEAHAWK LED Work Lamps**

A new class of ultra efficient, compact and lightweight LED lamps. Rated at 240 lumens. Suitable for recess mounting only.

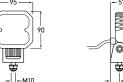




#### **Q90 Compact LED Reversing** Lamp ADR Compliant

Combining a strong light output with practical design, the Q90 compact LED is the ideal LED reversing Spot Lamp. Four high-power LEDs produce a light output of 1200 lumens, which a reflector directs homogeneously across a wide area behind the vehicle. This reversing lamp is ideally suitable for mounting to the rear of the vehicle so that it can be manoeuvred safely even at night.

















1563LED-RE	2ZR 996 284-501
Voltage	Multivolt™ 9-33V DC
Power Consumption	15 W
Max. Light Output	1200 lumens
Colour Temperature	6500 K
Temperature Range	-40°C to 60°C
Protection	Overheating and reverse polarity protection
Protection Class	IP6K7, IP6K9K
Lens	Polycarbonate
Housing	Thermally Conductive Plastic
Cable Length	2.0 Metres
Mounting	Pendant and upright mounting
Compliance	(E) ECE-R10, ECE-R23, (E) 00 4576, (A) ADR 1/00



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Module 70 LED Gen. Ill Reverse

The new Module 70 LED was developed especially for withstanding the tough

conditions of a rear Driving Lamp. The low mounting position on rear bumpers requires a high water, salt spray and impact resistance.

Lamp, ADR Compliant











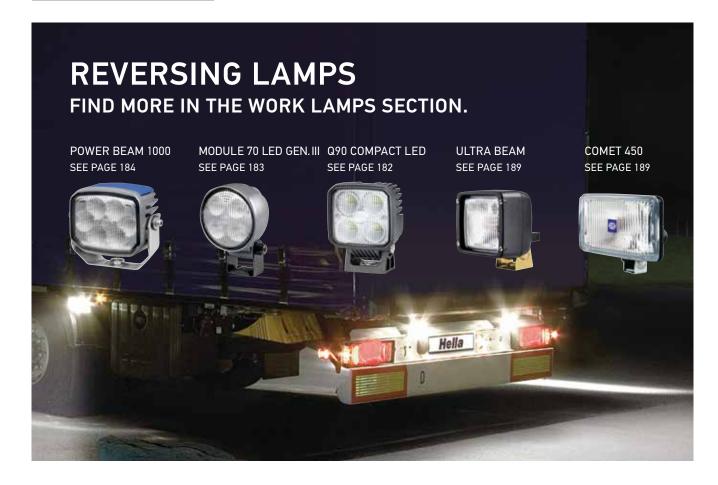






1547LED-RE	2ZR 996 376-091
Operating voltage	Multivolt™ 12/24V DC
Power consumption	13W
Light output	800 lumens
Illumination pattern	Extra wide beam
Light source	4 High Power LEDs
Protection class	LP 6K9K I IP67
Housing	Aluminium CoroSafe powder coated grey
Lens	Glass
Cable Length	2 Metres
Compliance	ECE R1 0, ECE R23, 🙆 ADR 1/00

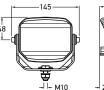
# 20 20 40 1547LED-RE



## Power Beam 1000 Reversing Lamp, ADR Compliant

Combining a strong light output with practical design, the Power Beam 1000 is the ideal LED Reversing Spot Lamp. This lamp was designed with compact dimensions and a flexible surrounding bracket so that it could be used anywhere.



















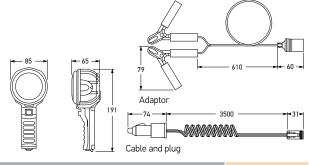
1551LED-RE	2ZR 996 188-121
Operating voltage/ Rated voltage	Multivolt™ 9-33V DC
Recommended angle of inclination	25°
Light source type	6 high-power LEDs
Power consumption	14 W
Light output	850 lm
Colour temperature	6500 K
Protection class	IP 6K9K and IP 6K8
Compliance	ECE-R10, ECE-R23, ADR 1/00
Housing	Aluminium, CoroSafe, powder-coated grey
Lens	Nylon
Cable Length	Integrated DT Socket (Optional 2 metre DT Pigtail Loom to be ordered separately)
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres



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LED Hand Held Spot Lamps

The LED hand held spot lamp only uses 1/3 of the power consumption of the 1520.



1520LED	2XM 958 372-001	LONG RANGE
1521LED	2XM 958 373-001	MEDIUM RANGE
Voltage	10-16 V	
Power Consumption	35W	
Light Output	1350 lumens	
Compliance	<b>&amp;</b>	



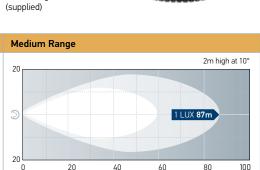


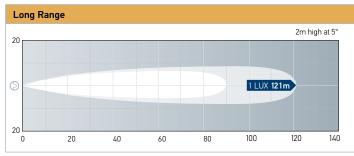
adaptor (supplied)















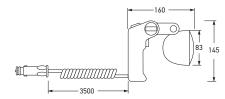
1H0 996 476-502











LONG RANGE

1H0 996 476-512 CLOSE RANGE		CLOSE RANGE
Voltage	Multivolt™12-24V DC	
Power Consumption	30W	
Light Output	2500 lumens	
Housing	Premium CoroSafe coating	
Cable	Spiral cable with cigarette lighter plug (extended length 3500mm)	
Protection	IP6K9K, IP6K8	
Compliance	<u>&amp;</u>	

#### Module 70 Gen. IV LED Hand Held Search Lamps

Compact, heavy duty Twin Beam Hand-Held Search Lamp with twin Free-Form (FF) reflector for close-range and powerful 100W long range beam. Handgrip with two independent on/off switches. Spiral cable (extendable to 3.5m) with plug for cigarette lighter and DIN/ISO sockets.



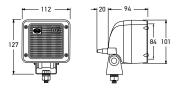
#### Ultra Beam Series - Close Range

Halogen Work Lamp with Free-Form (FF) reflector for uniform close or long range illumination. Made of die-cast aluminium. Glass lens bonded with reflector to be dust and moisture-proof. Shock-proof plastic housing. External AMP wiring connection.









All dimensions in mm.





1533	1GA 007 506-001	=	CLOSE RANGE
Mounting	Upright, side or pendant mounting through swivelling the lamp unit 90°. U-shape four-point fixing bracket with M10 screw for mounting on horizontal and vertical surfaces		
Power Consumption	12V – 55W 24V – 70W		
Globe to suit	12V H3 YC1255 (Globe ordered separately) 24V H3 YC2470 (Globe ordered separately)		
Protection	IP 6K4K (Protection against dust and water splash) IP X9K (Protection against high-pressure jets)		
Accessories	HM8158AMBER 9.6008.05 9.6008.06	Amber Clear Protective Cover  Rubber Boot for AMP Connection  Wiring Loom for AMP Connection – 2 metr	res 3

Not suitable for 100W globes.



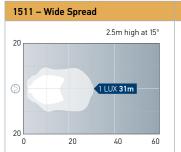




All dimensions in mm.

1511	1G4 905 107-001	♦ WIDE SPREAD
1513	1G4 905 109-001	COMBINATION RANGE - WIDE / LONG
Mounting	Full swivel four-point fixing bracket	for mounting on flat or slightly curved surfaces
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) (Globe to be ord 24V H3 (YC2470) (Globe to be ord	1 2.
Protection	IP 5K4K (Protection against dust and	d water splash)
Spare Parts	9.1511.01         Close range ins           9.1511.06         On-off rotary sv           9.1513.01         Combination ra	vitch
Accessory	9.1511.07 Protective Grille	2
Not suitable for 100W	alabas	

Not suitable for 100W globes.





#### **Matador Series**

Work Lamp with handle and switch. Black fibre-glass reinforced plastic housing with extended edge to protect lens.



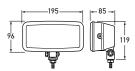




#### Flood Lamp - Close Range, 12V

Close range illumination.

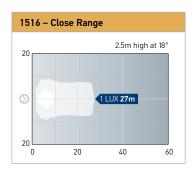








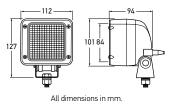
1516	1GD 910 301-001 CLOSE RANGE	
Mounting	Single bolt with tilt adjustment for upright mounting	
Voltage	12V (globe included)	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Spare Parts	9.1307.09 Body Assembly 9.1308.08 Mounting Bracket Assembly 9.1516.01 Insert	
Accessory	9.1517.08 Universal Pedestal Mounting Bracket	











1408	2ZR 997 506-402	
Mounting	Bracket and single bolt with tilt adjustment for upright mounting Detailed mounting instructions included	
Voltage	24 V Globe included	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	Fully sealed against dust and moisture to IP6K4K and IPX9K	
Spare Part	9.1408.01 FF Insert	
Accessories	9.6008.05 Rubber Boot for AMP Connection ① 9.6008.06 Wiring Loom for AMP Connection – 2m ②	
Compliance	ADR 1/100	
Note: Subject to special mounting and wiring specifications. Not suitable for 100W globes.		

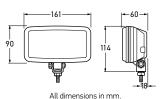
#### Ultra Beam Series Reversing Spot Lamp ADR Compliant

Reversing Spot Lamp providing maximum visibility of the rear and/or sides during reversing manoeuvres. Equipped with diecast aluminium Free-Form (FF) reflector and patterned glass lens for broad and uniform illumination. Sturdy design and shock-proof plastic housing for use under heavy duty conditions. Fully sealed to withstand high-pressure washing. AMP wiring connection.









Certified	All difficults in this.	
1410	2ZR 005 860-153	
Mounting	Bracket and single bolt with tilt adjustment for upright mounting Detailed mounting instructions included	
Voltage	Globe to be ordered separately	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	Fully sealed against dust and moisture to IP6K4K and IPX9K	
Compliance	ADR 1/100	
Note: Subject to special mounting and wiring specifications. Not suitable for 100W globes.		

#### Comet 450 Series Reversing Spot Lamp ADR Compliant

Reversing Spot Lamp providing maximum visibility of the rear and/or sides during reversing manoeuvres. Shock-proof housing for use under heavy duty conditions.



#### Halogen FF Twin Beam Hand-Held Search Lamp - 12V

Compact, heavy duty Twin Beam Hand-Held Search Lamp with twin Free-Form (FF) reflector for close-range and powerful 100W long range beam. Handgrip with two independent on/off switches. Spiral cable (extendable to 3.5m) with plug for cigarette lighter and DIN/ISO sockets.











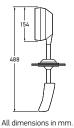
2862	1H3 998 502-001	
Mounting	Suitable for mounting on flat surfaces in conjunction with mounting base Part No. 9.2862.08	
Voltage	12V (globes included)	
Power Consumption	1 x 55W 1 x 100W	
Globe to suit	2 x 12V H3 (1 x YC1255, 1 x YC12100) 2 x 24V H3 (1 x YC2470, 1 x YC24100)	
Protection	Sealed against dust and moisture to IPX6K	
Spare Parts	9.2862.01 Insert 9.2862.03 Plug Assembly	
Accessory	9.2862.08 Mounting Base (optional) 1	

2862					
12V Beam	Distances				
55W 100W Both			1 LUX 500	JX 550m	LUX <b>750m</b>
0	100	300	500	700	900
24V Beam	Distances				
70W				1 LUX <b>580m</b>	
2x70W	400		500		1 LUX 800m
0	100	300	500	700	900

#### Halogen FF Twin Beam Search Lamp – Manual Control 12V

Compact Search Lamp for installation into vehicle roof. Twin Free-Form (FF) reflector system and handgrip with integrated on/ off switch. 360° horizontal rotation and 30° vertical tilt.







2863	1H3 998 502-021
Voltage	12V (globes included)
Power Consumption	2 x 55W
Globe to suit	2 x 12V H3 (YC1255) 2 x 24V H3 (YC2470)
Protection	Sealed against dust and moisture to IPX6K
Spare Parts	9.2862.01 Insert

2863				
12V Beam Distance				
2x55W				1 LUX <b>730m</b>
0	100	300	500	700 900

### 2 Pole Switch Plug and Socket (300mm)



#### 8KA 958 360-001

Cable Size 1.5mm² Cable

#### 8KA 958 361-001

Cable Size 1.5mm<sup>2</sup> Cable

## 2 Pole Y-Splitter Joint Plug and Socket (300mm)



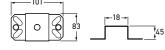
## 2 Pole DT Extension Plug and Socket (2.5m)

#### 8KA 958 363-001

Cable Size 1.5mm<sup>2</sup> Cable







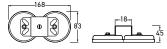
All dimensions in mm.

9.1517.08	9XD 130 261-001
Mounting	10mm dia. mounting hole

### Pedestal Mounting Bracket - Universal

Universal stainless-steel Pedestal Bracket for four-point mounting. Suitable for use with all of HELLA Work Lamps.





All dimensions in mm.

9.1537.08	8HG 004 806-001
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of lamps with a magnetic base cannot be recommended for use on moving vehicles.

### Magnetic Mounting Bracket – Universal

Universal Magnetic Mounting Bracket suitable for use with all HELLA Work Lamps. Consists of 2 magnets and fittings.





## and Signal Warning Lamps

A comprehensive range of products that meet the requirements of a modern Emergency Response Fleet.





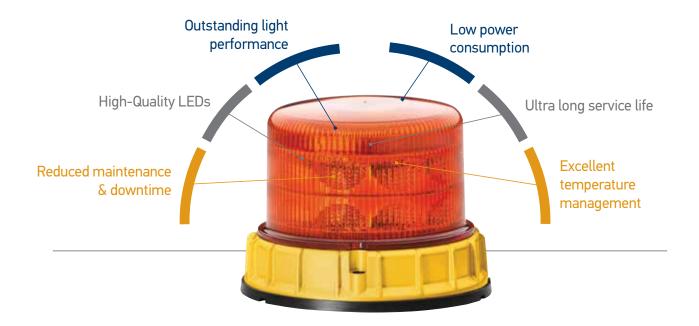
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## HELLA EMERGENCY AND SIGNAL WARNING LIGHTING

HELLA's range of Emergency Lighting and Signal Warning Lamps provide high levels of performance and reliability for situations where a powerful warning light is required to attract attention.



LED is the most desired light technology by emergency services due to the many features it offers: ultra-long service life, low power consumption, outstanding light performance, reduced downtime and maintenance requirements.

Quality materials and robust construction are combined to handle demanding and harsh environments.

High-quality components, advanced technology and no moving parts offer extremely long design life. LEDs are solid state components and thus demonstrate a considerable higher vibration resistance compared to bulb and motor driven products.

HELLA's rotating and signal warning lamps, offer choices of signal colour, luminous intensities, flash patterns and supply voltages, providing a complete range of warning lamps to suit most applications and performance requirements.

The rotating light pattern is well recognised as a highly effective warning signal in all conditions, even in bright sunlight. Instant activation is ensured from ambient temperatures ranging from  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

HELLA LED products must meet the highest quality requirements before being approved for the market.



## PERFORMANCE AND RELIABILITY ARE GUARANTEED

#### HELLA Emergency Lamps are tested to International Standards.









#### Vibration Test

This test simulates the behaviour of the products in harsh off-road conditions and verifies resistance to potholes, washboard road patterns and gravel roads.

A (wide band random vibration) test is used to test the mechanical endurance strength of the test specimen. The vibration frequency range extends from 10 to 1000 Hertz. In addition to vibration testing, products are subjected to a temperature overload of  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

#### Ingress Protection (IP ratings)

HELLA Emergency and Signal Warning Lighting contain precision electronic and mechanical components in order to achieve outstanding product performance. In order to protect these components and assure long term reliability HELLA products are designed and tested to meet international standards on ingress protection as per IEC 60529, DIN 40050-9 or ISO 20653.

#### **Dust Test**

Entry of dust can affect the optical and mechanical operation of a lamp, potentially compromising its performance and reliability. Accordingly HELLA products are designed and tested to ensure the risk of dust ingress is minimised or eliminated. Dust-resistant products are rated at IP 5(K) X, while dust-proof products are rated at IP 6(K) X.

#### Water Splash Test

HELLA products that fulfil the water splash test requirement have been subjected to environmental testing designed to simulate operating conditions representing normal weather conditions. When correctly installed heavy rain, direct splashes and water sprays up to 4 bar will have no adverse effects on the long term reliability and performance of the product. This level of protection is provided on HELLA products rated at IP X4K or above.

#### **Temporary Immersion Test**

HELLA products that fulfil the temporary immersion test requirement have been subjected to tests designed to simulate operating conditions that involve brief immersions in water such as off-road driving through a stream. This level of protection is provided on HELLA products rated at IP X7.

#### High-Pressure Cleaner Test

For the ultimate in water ingress protection, HELLA products that fulfil the high-pressure cleaner test requirement are able to withstand water and steam jets of up to 80°C and 100 bar that may be encountered during commercial and industrial cleaning processes. This level of protection is provided on HELLA products rated at IP X9K.



#### First Digit Below: Table 1

Protection against solid foreign objects and access to hazardous parts.

#### Second Digit Right: Table 2

Protection against liquids.

#### FIRST DIGIT

- 0 Non-protected.
- 1 Protected against solid foreign objects of 50mm diameter and greater.
- 2 Protected against solid foreign objects of 12.5mm diameter and greater.
- 3 Protected against solid foreign objects of 2.5mm diameter and greater.
- 4 Protected against solid foreign objects of 1.0mm diameter and greater.
- 5 Dust-protected.
- 5K Dust-protected.
- 6 Dust-sealed.
- 6K Dust-sealed.

#### SECOND DIGIT

- Non-protected.
- 1 Protected against drops of water falling vertically.
- Protected against drops of water falling vertically at up to 15° from the vertical.
- 3 Protected against spraying water falling vertically at up to 60° from the vertical.
- 4 Protected against splashing water from all directions.
- 4K With higher pressure.
- 5 Protected against jet of water from all directions.
- 6 Protected against powerful water jets.
- 6K With higher pressure, specific for road vehicles.
- 7 Protected against the effects of immersion.
- Protected against prolonged effects of immersion under pressure to specified depth.
- 9K Protected against high-pressure cleaner, specific for road vehicles.

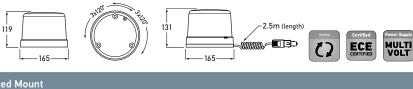
#### KL7000LED Series

KL7000LED Beacon, has the latest LED technology provides an optimum signal image with low power consumption.

The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirtresistant PMMA lens.







Fixed Mount					
1608	2RL 011 484-001 – Fixed Mount, Multivolt				
1608RET	2RL 011 484-002 – Fixed Mount, Multivolt	- AMBER			
Magnetic Mount					
1610	2RL 011 484-021 – Magnetic Mount, Multivolt	- AMBER			
Mounting	Upright, fixed mounting on horizontal surfaces.  Magnetic Mounting on horizontal surfaces. Supplied with spiral up to 2.5m) and 2-pole plug for cigarette lighter or standard DIN				
Voltage	Multivolt 10-32V DC				
Current Draw	12V DC - 0.8A 24V DC - 0.4A				
Power Consumption	12V DC - 10W 24V DC - 10W				
Rotation	120-133 rpm simulated (2.0-2.2Hz)				
EMC Interference Immunity	CISPR25 Power Controlled Class 5				
IP Rating	IP5KX, IPX4K and IPX9K				
Accessory	HMWGA160 GuardRay® Protective Cage				
Spare Part	9.1608.01 Lens				
Compliance	R65 TA1 (E) 00 3397 el 03 6194 ECE-F	R10 💩			

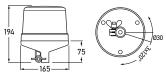
#### **KL7000LED Series**

KL7000LED Beacon, with the latest LED technology provides an optimum signal image with low power consumption.

The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirtresistant PMMA lens.











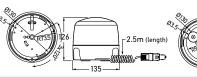


1609	2RL 011 484-011 - Pipe Mount, Multivolt
Mounting	Pipe Mounting. Tubular base incorporates connection plug.  Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts.
Voltage	Multivolt 10-32V DC
Current Draw	12V DC - 0.8A 24V DC - 0.4A
Power Consumption	12V DC - 10W 24V DC - 10W
Rotation	120-133 rpm simulated (2.0-2.2Hz)
EMC Interference Immunity	CISPR25 Power Controlled Class 5.
IP Rating	IP5KX, IPX4K and IPX9K
Accessory	HMWGA160 GuardRay® Protective Cage
Spare Part	9.1608.01 Lens
Compliance	R65 TA1 (E1) 00 3397 e1 03 6194 ECE-R10 🔕









			-		
Fixed Mount					
1611	2RL 010 979-001 – Fixed Mount, Multivolt				
1611RET	2RL 010 979-002 - Fixed Mount, Multivolt		AMBER		
Magnetic Mount					
1613	2RL 010 979-021 – Magnetic Mount, Multiv	volt	AMBER		
Mounting	Upright, fixed mounting on horizontal surfaces. Magnetic Mounting on horizontal surfaces. Supp up to 2.5m) and 2-pole plug for cigarette lighter				
Voltage	Multivolt 10-32V DC				
Current Draw	12V DC - 0.8A 24V DC - 0.4A				
Power Consumption	12V DC - 10W 24V DC - 10W				
Rotation	120-133 rpm simulated (2.0-2.2Hz)				
EMC Interference Immunity	CISPR25 Power Controlled Class 5				
IP Rating	IP5KX, IPX4K and IPX9K				
Spare Part	9EL 181 506-001 Lens				
Compliance	R65 TA1 (E1) 00 3109 [e1] 0	03 5517 ECE-R	10 🙈		

#### **RotaLED Series**

RotaLED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant Polycarbonate lens.



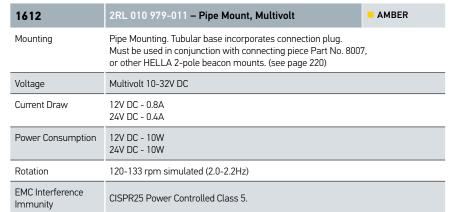




IP Rating
Compliance







el 03 5517 ECE-R10

IP5KX, IPX4K and IPX9K

TA1 (E1) 00 3109

R65

#### **RotaLED Series**

RotaLED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant Polycarbonate lens.



#### **RotaLED Compact**

The HELLA RotaLED Compact is the LED successor to the existing Rotafix halogen beacon series.

These can be replaced 1:1. No moving parts are required for the LED functions – so no wear and maximum reliability.

Since LEDs are maintenance-free, they do not cause any additional costs for spare parts or maintenance. Downtime is reduced to a minimum.



2RL 014 979-001



2RL 014 979-021



2RL 014 979-011

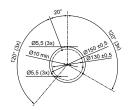


Fixed Mount		
2RL 014 979-04	- AMBER	
Voltage	Multivolt 10-30 V DC	
Current Draw	0.6A (12V) 0.3A (24V)	
Power Consumption	7W Max	
Dome Lens	Polycarbonate	
Housing	Black, polycarbonate and ABS	
IP Rating	IP 67, IP X9K	
Operating temperature	-40°C to 60°C	
Reverse Polarity Protection	Yes	
EMC Interference Immunity	CISPR25 Class 5*	
Type Approval	SAE J845, Class 1 🙆	

Fixed Mount		
2RL 014 97	9-001 - RotaLED Compact F	- AMBER
Magnetic Mou	unt	
2RL 014 97	- AMBER	
Pipe Mount		
2RL 014 979-011 - RotaLED Compact FL - AMBER		
Voltage	Multivolt 10 – 30V DC	•

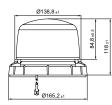
Voltage	Multivolt 10 – 30V DC
Current Draw	0.6A (12V) 0.3A (24V)
Power Consumption	7W Max
Dome Lens	Polycarbonate
Housing	Black, polycarbonate and ABS
IP Rating	IP 67, IP X9K
Operating Temperature	-40°C to 60°C
Reverse Polarity Protection	Yes
EMC Interference Immunity	CISPR25 Class 5*
Type Approval	ECE-R65 TA 1 004837 SAE J845, Class 2

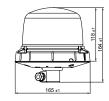
<sup>\*150 - 300</sup> kHz: Class 3

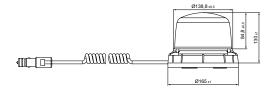


RotaLED Compact F

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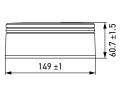


RotaLED Compact FL

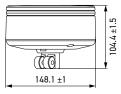
RotaLED Compact M

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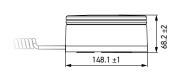
Fixed Mount					
2RL 455 256-00	2RL 455 256-001 - K-LED Rebelution, Fixed Mount				
Magnetic Mount					
2RL 455 256-02	1 - K-LED Rebelution, Magnet Mount	AMBER			
Flexible Pipe Socke	et Adapter				
2RL 455 256-01	1 - K-LED Rebelution, Pipe Mount	AMBER			
Voltage	12V / 24V DC				
Current Consumption	@ 1.08A (12V) @ 0.54A (24V)				
Power Consumption	Max. 13 W				
Light Ring	Polycarbonate				
Housing	Aluminium				
IP Rating	IP 6K7, IP 6K9K				
Operating Temperature	-40°C to 60°C				
Reverse Polarity Protection	Yes				
EMC Interference Immunity	ECE-R10, CISPR 25 Class 3				
GGVSE/ADR	Yes				
Type Approval	ECE-R65 TA1 (E1)				







Pipe socket adapter (FL)



Magnet mounting (M)

#### K-LED® Rebelution

The K-LED® Rebelution is a revolutionary beacon featuring the latest LED technology. It provides maximum performance in a minimalist and highly innovative, dome-free design.

Instead, the light is visible through a circumferential, ring-shaped light band. Despite light exit area being smaller than a conventional domed beacon the K-LED® Rebelution emits a highly visible warning signal.



2RL 455 256-001



2RL 455 256-021



2RL 455 256-011



#### MiniRAY 2.1

MiniRAY 2.1 is a flashing only Beacon with a flat compact design, low current consumption, high efficiency and long service life. Designed for Mining service vehicles, the LEDs are maintenance-free so no additional spare parts are required, to reduce downtime to a minimum.

It is available in fixed mount or magnetic mount making installation extremely flexible (Ø 130 mm and SAE Ø 150 mm).





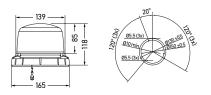
Fixed Mount		Magnetic Mount		
2XD 012 480-301		2XD 012 480-401	-	AMBER
2XD 012 480-341			•	GREEN
Voltage	9-30V DC			
Current Consumption	Flashing: @ approx. 0.4A (12V)			
Power Consumption	4W			
Dome Lens	Polycarbonate			
Housing	Polycarbonate & ABS			
IP Rating	IP6K7, IP6K9K			
Temperature Range	-40°C to 60°C			

Protection	Yes
EMC Interference	ECE-R10 057636, 💩

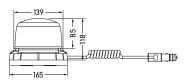
Yes

SAE J845 Class 3 Type Approval

Temperature Range Reverse Polarity



Fixed attachment Dimensions in mm



Magnetic attachment Dimensions in mm



	Fixed Mount	Magnetic Mount	Magnetic Mount			
	2RL 012 983-001	2RL 012 983-	2RL 012 983-101			
	2RL 012 983-011	2RL 012 983-	2RL 012 983-111			
UltraRay 2.0 Rotating	2RL 012 983-021	2RL 012 983-	2RL 012 983-121			
	2RL 012 983-031	2RL 012 983-	2RL 012 983-131			
	2RL 012 983-041	2RL 012 983-	2RL 012 983-141			
	2XD 012 984-001	2XD 012 984-	2XD 012 984-101			
UltraRay 2.1	2XD 012 984-011	2XD 012 984-	2XD 012 984-111			
Flashing	2XD 012 984-021	2XD 012 984-	·121	■ RED		
	2XD 012 984-031	2XD 012 984-	·131	■ GREEN		
	2XD 012 984-041	2XD 012 984-	141	WHITE		
Voltage	10-30V DC					
Current Consumption	Rotating: @ 1.6A (12V) & @ 0.8A (24V) Flashing: @ 1.8A (12V) & @ 0.9A (24V)					
Power Consumption	Rotating: 20W Flashing: 22W					
Dome Lens	Polycarbonate					
Housing	Powder-coated die-cast aluminium					
IP Rating	IP6K7, IP6K9K					
Temperature Range	-40°C to +60°C					
Reverse Polarity Protection	Yes					
EMC Interference Immunity	ECE-R10, CISPR 25 Class	5, 💩				
Type Approval	SAE J845 Class 1, ECE R65					
ECE R65	Amber: TA1 (E1) Ro	5 004439				
Compliance UltraRay 2.0	Blue: TB1 (E1) Ro					
Rotating	Red: TR1 E1 Ro	5 004441				
ECE R65 Compliance	Amber: TA1 (E1) Ro					
UltraRay 2.1	Blue: TB1 E1 R					
Flashing	Red: TR1 (E1) Ro	5 004444				

#### UltraRAY 2.0 (Rotating) UltraRAY 2.1 (Flashing) Powerful Heavy Duty LED Beacon

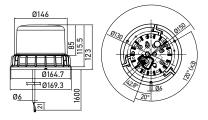
UltraRAY Beacons are a innovative electronic concept offering a rotating or a flashing LED light function – without moving parts.

The unsurpassed EMI footprint meets the highest possible standard (CISPR25 Class 5). Wherever Beacons risk interference with radio communications, UltraRAY is the solution. UltraRAY can be mounted directly next to radio communication systems and there will be no disturbance from the Beacon.

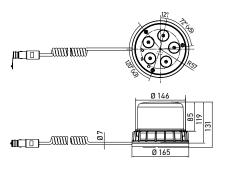
The shockproof polycarbonate dome guarantees especially reliable protection from impact.

The double lighting system in the UltraRAY 2.0 / 2.1 increases the light exit area, so producing an especially strong warning effect.





Fixed attachment Dimensions in mm

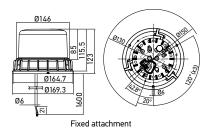


Magnetic attachment Dimensions in mm

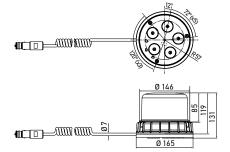
#### **DuraRAY 4.0 Brightest HELLA** LED Beacon Made for Mining

The integrated light sensor automatically toggles between day and night mode. This guarantees the best possible warning effectiveness.





Dimensions in mm



Magnetic attachment Dimensions in mm



Fixed Mount		Magnet	ic Mount		
2XD 012 985-00	1	2XD 0	12 985-101	-	AMBER
2XD 012 985-01	1	-		•	BLUE
2XD 012 985-02	1	2XD 0	12 985-121	•	RED
2XD 012 985-03	1	-		•	GREEN
2XD 012 985-04	1	2XD 0	12 985-141	-	WHITE
Voltage	10-30V DC				
Current Consumption	@ 2.6A (12V) @ 1.3A (24V)				
Power Consumption	32W			-	
Dome Lens	Polycarbonate				
Housing	Powder-coated die-cast aluminium. Passivated.				
IP Rating	IP6K7, IP6K9K				
Temperature Range	-40°C to 60°C				
Reverse Polarity Protection	Yes				
EMC Interference Immunity	ECE-R10, CISPR 25	5 Class 5,	<b>&amp;</b>		
Type Approval	SAE J845 Class 1, ECE R65				
ECE R65 Compliance Rotating Function	Amber: TA1 (E) Blue: TB1 (E) Red: TR1 (E)	) R65	004509 004510 004511		
ECE R65 Compliance Flashing	Amber: TA1 (E) Blue: TB1 (E)	1	004512 004513		

Red:

Function

(E1)

TR1

R65 004514







Fixed Mount			
HM9600ADIR	2XD 011 557-001 – Fixed Mount, Multivolt	- AMBER	
2XD 011 557-10	1 - Fixed Mount, Multivolt, Silver Base	AMBER	
HM9600BDIR	2XD 011 557-011 – Fixed Mount, Multivolt	■ BLUE	
HM9600RDIR	2XD 011 557-021 – Fixed Mount, Multivolt	■ RED	
HM9600GDIR	2XD 011 557-031 − Fixed Mount, Multivolt		
Voltage	Multivolt 9-33V DC		
Power Consumption	33W Max		
Dome Lens	Polycarbonate		
Housing	Powder-coated die-cast aluminium		
IP Rating	IP6K7, IP6K9K		
Temperature Range	-40°C to 60°C		
Reverse Polarity Protection	Yes		
EMC Interference Immunity	CISPR25 Class 5. ECE R10.		
Type Approval	SAE J845 Class 1		
ECE R65 Compliance	Amber: TA2 (E1) R65 00 3555 Red: TR2 (E1) R65 03 6816		

## K-LED® Mining LED Warning Beacon

K-LED® Mining is the benchmark in the world of low profile mining beacons. This state-ofthe-art beacon is designed for smaller mobile vehicles to suit modern styling requirements.

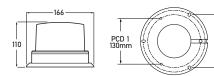


2XD 011 557-101

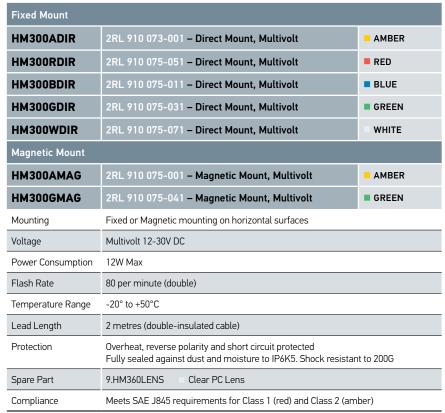
#### OptiRAY®-E Series

Compact and extremely robust LED Warning Beacon for heavy-duty applications. Equipped with high impact-resistant, clear polycarbonate lens and UV-resistant fibreglass nylon composite base for increased mechanical strength. Tolerant to severe vibration levels and suitable for corrosive environments where metal products should not be used. O-ring sealed against dust and water ingress.



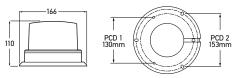






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Fixed Mount			
HM360ADIR	2RL 910 078-021 – Direct Mount, Multivolt	- AMBER	
HM360RDIR	2RL 910 078-111 – Direct Mount, Multivolt	■ RED	
HM360BDIR	2RL 910 078-061 – Direct Mount, Multivolt	■ BLUE	
HM360GDIR	2RL 910 078-081 – Direct Mount, Multivolt	■ GREEN	
Magnetic Mount			
HM360AMAG	2RL 910 078-041 – Magnetic Mount, Multivolt	AMBER	
HM360RMAG	2RL 910 078-121 – Magnetic Mount, Multivolt	■ RED	
HM360BMAG	2RL 910 078-071 – Magnetic Mount, Multivolt	■ BLUE	
HM360GMAG	2RL 910 078-091 – Magnetic Mount, Multivolt	■ GREEN	
Mounting	Fixed or magnetic mounting on horizontal surfaces		
Voltage	Multivolt 12-30V DC		
Power Consumption	20W Max		
Flash Rate	80 per minute (double) 16 user-selectable flash patterns, including rotating		
Temperature Range	-20° to +50°C		
Lead Length	2 metres (double-insulated cable)		
Protection	Overheat, reverse polarity and short circuit protected Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G		
Spare Part	9.HM360LENS Clear PC Lens		
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (am	ber)	

#### OptiRAY® Series

Extremely robust LED Warning Beacon for heavy-duty applications, featuring sixteen user-selectable flash patterns and automatic daylight detection to suit a large variety of applications.

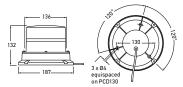
Equipped with high impact-resistant, clear polycarbonate lens bolted to a heavy-duty, corrosion-resistant cast-alloy base. Double insulated supply cable and o-ring sealed against dust and water ingress.



#### UltraRAY® Series

Extremely robust LED Warning Beacon for heavy-duty applications, featuring four user-selectable flash patterns and automatic daylight detection to suit a large variety of applications. Equipped with high impactresistant, clear polycarbonate lens bolted to a heavy-duty, corrosion-resistant cast-alloy base. O-ring sealed against dust and water ingress.











Fixed Mount				
HM400ADIR	2RL 910 081-001 - Direct Mount, Multivolt			
HM400RDIR	2RL 910 081-031 – Direct Mount, Multivolt			
HM400BDIR	2RL 910 081-011 – Direct Mount, Multivolt			
HM400GDIR	2RL 910 081-021 - Direct Mount, Multivolt			
HM400WDIR	2RL 910 081-041 - Direct Mount, Multivolt	WHITE		
Mounting	Fixed mounting on horizontal surfaces			
Voltage	Multivolt 12-30V DC			
Power Consumption	20W Max			
Flash Rate	80 per minute (double). 4 user-selectable flash patterns (double, quad and 2 random patterns)			
Temperature Range	-20° to +50°C			
Lead Length	2 metres (double-insulated cable)			
Protection	Overheat, reverse polarity and short circuit protected Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G			
Spare Part	9.HM400LENS Clear PC Lens			
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (am	ber)		

#### UltraRAY®-R **Twin Series**

The UltraRAY®-R Twin LED Beacon is designed for increased visibility in bright sunlight with more than double the intensity of the original UltraRAY®. Compact, robust and tolerant to severe vibration, maintenance-free LEDs reduce demand on electrical systems by up to 70%. A highly efficient and effective warning beacon in daylight on surface operations in extreme environmental conditions.











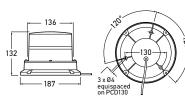


Fixed Mount				
HM500ADIR	2RL 910 097-001 – 'Rotating' Direct Mount, Multivolt			
HM500RDIR	2RL 182 653-502 – 'Rotating' Direct Mount, Multivolt	■ RED		
HM500BDIR	2RL 182 653-102 – 'Rotating' Direct Mount, Multivolt	■ BLUE		
HM500GDIR	2RL 182 653-302 – 'Rotating' Direct Mount, Multivolt	■ GREEN		
Mounting	Fixed mounting on horizontal surfaces			
Voltage	Multivolt 12-30V DC			
Power Consumption	50W Max			
Flash Rate	Rotating 80 cycles/min Flash 72fpm (quad)			
Temperature Range	-20° to +50°C			
Lead Length	2 metres (double-insulated cable)			
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant t	o 200G.		
Spare Parts	9.HM450ALENS Amber PC Lens 9.HM450RLENS Red PC Lens 9.HM450BLENS Blue PC Lens 9.HM450GLENS Green PC Lens 9.HM450WLENS White PC Lens			
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (ambe	er)		









Fived Mannet			
Fixed Mount			
HM450ADIR	2RL 910 087-001 - 'Rotating' Direct Mount, Multivolt	AMBER	
HM450RDIR	2RL 910 087-081 - 'Rotating' Direct Mount, Multivolt	■ RED	
HM450BDIR	2RL 910 087-041 – 'Rotating' Direct Mount, Multivolt	■ BLUE	
HM450GDIR	2RL 910 087-061 – 'Rotating' Direct Mount, Multivolt	■ GREEN	
Magnetic Mount			
HM450AMAG	2RL 910 087-031 – 'Rotating' Magnetic Mount, Multivolt	AMBER	
HM450BMAG	2RL 910 087-051 – 'Rotating' Magnetic Mount, Multivolt	■ BLUE	
Mounting	Fixed or magnetic mounting on horizontal surfaces		
Voltage	Multivolt 12-30V DC		
Power Consumption	20W Max		
Flash Rate	Rotating 80 cycles/min Flash 72fpm (quad)		
Temperature Range	-20° to +50°C		
Lead Length	2 metres (double-insulated cable)		
Protection	Overheat, reverse polarity and short circuit protected Fully sealed against dust and moisture to IP6K5. Shock resistant	to 200G	
Spare Parts	9.HM450ALENS Amber PC Lens 9.HM450RLENS Red PC Lens 9.HM450BLENS Blue PC Lens 9.HM450GLENS Green PC Lens 9.HM450WLENS Clear PC Lens		
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (ambe	er)	

#### UltraRAY®-R 'Rotating' Series

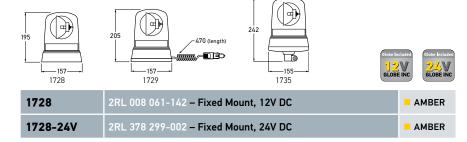
UltraRAY®-R LED Warning Beacons are optimised to deliver high visibility warning signals in the dusty conditions of surface mining operations – day and night.

UltraRAY®-R Beacons feature user-selectable 'rotating' or quad flash patterns.



#### KL7000 Series

KL7000 high performance revolving Beacon has light values well above the minimum requirements. All KL7000 Beacons can be operated on 12V or 24V by changing the globe. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.









1729	2RL 008 062-132 - Magnetic Mount, Dual Voltage 12/24V DC* - AMBER
1735	2RL 905 145-001 – Flexi-base Mount, Dual Voltage 12/24V DC* = AMBER
Current Draw	12V DC - 5.5A 24V DC - 3.5A
Power Consumption	12V DC - 55W 24V DC - 70W
Rotation	160rpm
EMC Interference Immunity	Conducted Class 5 (CISPR25)
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)
Globes to Suit	12V C1255 (included) 1728, *1729, *1735 24V C2470 (included) 1728-24V
Spare Parts	9.1726.01



HELLA does not recommend the magnetic base version for use on a moving vehicle. (see page 219)

See pages 219 & 220 for spare part images.

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1796	2RL 008 065-141 – Fixed Mount, Dual Voltage 12/24V DC		
Current Draw	12V DC - 5.5A 24V DC - 3.5A		
Power Consumption	12V DC - 55W 24V DC - 70W		
Rotation	160rpm		
EMC Interference Immunity	Conducted Class 5 (CISPR 25)		
Globe to Suit	12V - C1255 (included) 24V - C2470		
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)		
Spare Parts	9.1796.01 ■ Amber lens 9.1737.91 Two drive belts 9.1726.52 Motor assembly 12/24V		

#### KL8000 Series

KL8000 revolving Beacon was developed for large and heavy commercial vehicles. High light values guarantee utmost warning effectiveness and safety. Smooth running is achieved due to the maintenance-free drive bearings and twin-belt technology.







#### KL600 Series Beacon

Pipe Mount revolving Beacon. Halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.

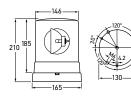








1713	2RL 004 957-11	1 – 24 Volt, Pipe Mount, Optic Lens	- AMBER
Mounting	Pipe Mounting. Tubular base incorporates connection plug.  Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts. (see page 219)		
Voltage	24V DC (globe incl	uded)	
Current Draw	24V DC - 3.5A		
Power Consumption	24V DC - 70W		
Rotation	160 +/- 30 rpm		
Protection	IP 45		
Note	1710 version shown		
Globe to Suit	24V H1 (C2470)		
Accessories	8007 8007FM 8007RA 8007SCR	2-Pole Beacon Mount 2-Pole Beacon Mount – Flat 2-Pole Beacon Mount – 90° 2-Pole Beacon Mount – Screw	
Spare Parts	9.1701.01 9.1710.01	<ul> <li>Blue Lens</li> <li>Red Lens</li> <li>Amber Lens</li> <li>Amber Lens (optic)</li> <li>Reflector Base Assembly (screw mount)</li> <li>24V Motor (plastic type)</li> <li>Drive Belts (set of 2)</li> </ul>	







21(2 /00 10/ 00	11 – 12 Volt DC, Fixed Mount	■ BLUE	
2RL 905 139-00	2RL 905 139-001 – 24 Volt DC, Fixed Mount		
2RL 905 137-02	21 – 12 Volt DC, Fixed Mount	AMBER	
2RL 905 139-02	21 – 24 Volt DC, Fixed Mount	AMBER	
2RL 905 143-00	1 – Optic Lens	AMBER	
		crews,	
.5	•		
12V DC - 5A 24V DC - 3.5A			
12V DC - 55W 24V DC - 70W			
160rpm			
VDE 0879, Class 3, FM 5			
12V H1 (C1255) 24V H1 (C2470)			
IP5KX, IPX4K and IPX9K			
Amber version shown. Mounting restrictions apply when using HELLA Part No. 1653 - Magnetic Mounting Kit			
1653 Magnetic Mounting Kit Caution: Mounting restrictions apply. (see page 219) HMWGA220 GuardRay Protective Cage			
9.1717.01 9.1719.01 9.1724.01 9.1717.54 9.1717.54 9.1717.52 9.1717.52 9.1737.91 9.1717.23	<ul> <li>Blue Lens</li> <li>Amber Lens (optic)</li> <li>12V Motor (plastic type)</li> <li>24V Motor (plastic type)</li> <li>12V Motor with reflector (clip mount)</li> <li>Drive Belts (set of 2)</li> <li>Reflector Base Assembly (screw mount)</li> </ul>		
	2RL 905 139-00 2RL 905 137-02 2RL 905 139-02 2RL 905 143-00 Fixed Mounting or DIN B1: PCD 130n 12V DC (globe incl 24V DC - 5A 24V DC - 3.5A  12V DC - 55W 24V DC - 70W  160rpm  VDE 0879, Class 3  12V H1 (C1255) 24V H1 (C2470)  IP5KX, IPX4K and Amber version sh HELLA Part No. 1  1653 HMWGA220  9.1717.01 9.1719.01 9.1719.01 9.1717.54 9.1717.52 9.1737.91 9.1717.23	2RL 905 139-001 – 24 Volt DC, Fixed Mount  2RL 905 137-021 – 12 Volt DC, Fixed Mount  2RL 905 139-021 – 24 Volt DC, Fixed Mount  2RL 905 143-001 – Optic Lens  Fixed Mounting on horizontal surfaces. 3 x M6 holes for fixing s DIN B1: PCD 130mm  12V DC (globe included)  24V DC (globe included)  12V DC - 5A  24V DC - 3.5A  12V DC - 55W  24V DC - 70W  160rpm  VDE 0879, Class 3, FM 5  12V H1 (C1255)  24V H1 (C2470)  IP5KX, IPX4K and IPX9K  Amber version shown. Mounting restrictions apply when using HELLA Part No. 1653 - Magnetic Mounting Kit  1653  Magnetic Mounting Kit  Caution: Mounting restrictions apply. (see production of the producti	

#### KL700 Series Beacon

KL700 high performance revolving Beacon. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin-belt drive ensures a smooth and quiet operation.



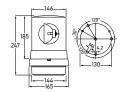


#### KL700 Series

Pre-fitted with sturdy Magnetic Base (Part No. 1653) for quick and secure attachment on vehicle roof.









1719MAG	2RL 905 138-001 – Magnetic Mount, 12V DC					
Mounting	Magnetic Mounting on horizontal surfaces. Supplied with 1.5 metre cable and 2-pole plug for the cigarette lighter socket.					
Voltage	12V DC (globe included)					
Current Draw	12V DC - 5A					
Power Consumption	12V DC - 55W					
Flash Rate	160 +/- 30 rpm.					
EMC Interference Immunity	VDE 0879, Class 3, FM5					
Protection	IP5KX, IPX4K and IPX9K					
Note	Meets shock test MIL-S9-10C, SAE J1318 requirements for class 2, AAMVA certified					
Globes to Suit	12V H1 (C1255)					
Spare Parts	9.1719.01       = Amber Lens         9.1724.01       = Amber Lens (optic)         9.1717.54       12V Motor (plastic type)         9.1717.23       Reflector Base Assembly (screw mount)         9.1717.52       12V Motor with reflector (clip mount)         9.1737.91       Drive Belts (set of 2)					

 $HELLA\ does\ not\ recommend\ the\ magnetic\ base\ version\ for\ use\ on\ a\ moving\ vehicle\ (see\ page\ 219)$ 









1702	2RL 006 295-3	01 – 12 Volt DC, Fixed Mount	- AMBER		
1705	2RL 006 295-3	2RL 006 295-311 - 24 Volt DC, Fixed Mount AMBER			
Mounting	Fixed Mounting of DIN B1: PCD 130	on horizontal surfaces. 3 x M6 holes for fixing mm or 107mm.	screws.		
Voltage		12V DC (globe included) 24V DC (globe included)			
Current Draw	12V DC - 5A 24V DC - 3.5A				
Power Consumption	12V DC - 55W 24V DC - 70W				
Rotation	160 +/- 30 rpm	160 +/- 30 rpm			
EMC Interference Immunity	VDE 0879, Class	VDE 0879, Class 3, FM 5			
Globes to suit	12V H1 (C1255) 24V H1 (C2470)				
Protection	IP5KX, IPX4K and IPX9K				
Note	Amber version shown. Mounting restrictions apply when using HELLA Part No. 1653 - Magnetic Mounting Kit				
Accessories	1653 Magnetic Mounting Kit   Caution: Mounting restrictions apply. (see page 219)  HMWGA220 GuardRay Protective Cage   GuardRay Protective Cage				
Spare Parts       9.1708.01       ■ Blue Lens         9.1701.01       ■ Red Lens         9.1710.01       ■ Amber Lens         9.1713.01       ■ Amber Lens (optic)         9.1717.52       12V Motor with reflector (clip mount) ②         9.1717.23       Reflector Base Assembly (screw mount) ③         9.1717.54       12V Motor (plastic type) ⑤         9.1720.54       24V Motor (plastic type) ⑤         9.1737.91       Drive Belts (set of 2) ⑥					

#### KL710 Series

KL710 revolving Beacon. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.





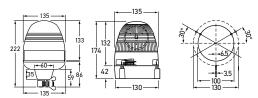
#### **KL Rotafix Series**

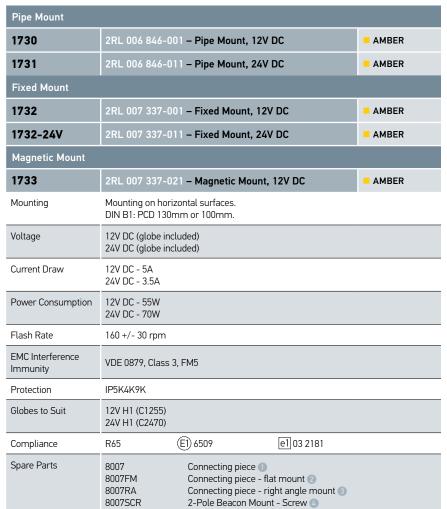
Revolving Beacon with impact-resistant polycarbonate optic lens and rubber base.









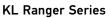




HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 219)







Impact-resistant polycarbonate lens.







Fixed Mount	
1786	2RL 007 550-001 - Fixed Mount, 12V DC - AMBER
1787	2RL 007 550-011 - Fixed Mount, 24V DC - AMBER
Magnetic Mount	
1792	2RL 007 552-001 – Magnetic Mount, 12V DC
Mounting	Fixed Mounting on horizontal surfaces. DIN B1: PCD 130mm or 115mm.
Voltage	12V DC (globe included) 24V DC (globe included)
Current Draw	12V DC - 5.5A 24V DC - 3.5A
Power Consumption	12V DC - 55W 24V DC - 70W
Rotation	160 +/- 30 rpm
Protection	IP5K4K9K
EMC Interference Immunity	VDE 0879, Class 3, FM5
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)
Spare Parts	9.1786.01 • Amber Lens
Accessories	8007       2-Pole Beacon Mount         8007FM       2-Pole Beacon Mount – Flat         8007RA       2-Pole Beacon Mount – 90°         8007SCR       2-Pole Beacon Mount – Screw
Compliance	R65 E1 6509 e1 03 2181





#### Micro Light Bar

The Micro Light Bar is a powerful LED warning light that generates an intensive 360-degree warning signal suitable for various applications.

The Micro Light Bar combines a flashing and rotating signal in one unit, while also providing reverse polarity protection.

Available in either a clear or amber lens, with amber illumination.



2RL 014 566-111 Clear lens, amber illumination



2RL 014 566-311 Amber lens, amber illumination

(A) 255 ±2			Principlants  10-30V	P.V.	*C -+65°C
9. (a)	48.9±1	Revense Polarity Protection	notes	EMC EMC	RCM

2RL 014 566-111 – Clear lens		- AMBER
2RL 014 566-311 – Amber lens		AMBER
Dome and Housing	Polycarbonate	
Operating Voltage	Multivolt 10-30V DC	
Current Consumption	5.6 A (12V) 2.7 A (24V)	
Power Consumption	Max. 66W	
Light Function	Flashing and Rotating	
Connection	500 mm cable	
Weight	691 g	
Temperature Range	-40°C to +65°C	
Reverse Polarity Protection	Yes	
Protection	IP X7, IP X9K	
EMC Interference Immunity	ECE-R10, CISPR 25 Class 3,	
Type Approval	SAE J845 Class 1	

#### Mini Light Bar

The Mini Light Bar is a powerful LED warning light that generates an intensive 360-degree warning signal suitable for various applications.

The Mini Light Bar combines a flashing and rotating signal in one unit, while also providing reverse polarity protection.

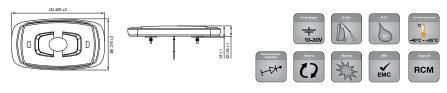
Available in either a clear or amber lens, with amber illumination.



2RL 014 565-111 Clear lens, amber illumination



2RL 014 565-311 Amber lens, amber illumination



2RL 014 565-11	1 – Clear lens	AMBER
2RL 014 565-311 – Amber lens		AMBER
Dome and Housing	Polycarbonate	
Operating Voltage	Multivolt 10-30V DC	
Current Consumption	6.1 A (12 V) 2.8 A (24 V)	
Power Consumption	Max. 70W	
Light Function	Flashing and Rotating	
Connection	500 mm cable	
Weight	1,300 g	
Temperature Range	-40°C to +65°C	
Reverse Polarity Protection	Yes	
Protection	IP X7, IP X9K	
EMC Interference Immunity	ECE-R10, CISPR 25 Class 3,	
Type Approval	SAE J845 Class 1	

## ECE











2XD 455 355-00	1	- AMBER
Rated Voltage	Multivolt	
Operating Voltage	12 / 24 V DC	
Current Consumption	Max. 2.5 A for one module	
Power Consumption	Max. 30 W for one module	
Lamp Function	Flashing	
Light Source	LED	
Material	Lens: polycarbonate housing: PC-ABS	
Weight	318 g	
Temperature Range	-40°C to +60°C	
Protection Class	IP 67	
Type Approval	ECE-R65 HTA1 only for the set of two modules	
EMC Interference Immunity	CISPR 25 Class 5 💩	
Mounting	Inbuilt, bracket mounting	
Connection	Cable length: 200 mm, cable bare ends	
Spare Part	2XD 455 355-011 (Single module for replacement)	

#### Corner Module 270

The HELLA Corner Module 270 is a special wide angle warning lamp which is approved as a "half bar" as a set of two modules and offers a new alternative to conventional beacons. Two modules illuminate an area of at least 270 degrees at a distance of 20m from the vehicle. They can be integrated into the vehicle body or mounted on top using a bracket.

The housing is black and a flashing amber warning lamp creates attention around the vehicle. It is possible to create a double flashing pattern and synchronize the modules. The modules are suggested to be positioned at a 45 degree angle to the driving direction for uniform illumination over full 270 degrees.

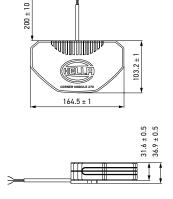


#### Integration

In order to integrate the elements into the vehicle body, appropriate space must be planned.





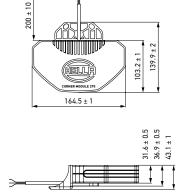


#### **Bracket mounting**

The supplied brackets allow for surface-mounting of the product.







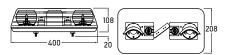
#### Mini Light Bar

Compact, low-profile Light Bar with two rotating modules. Fitted with impact-resistant polycarbonate lens, dual-speed drive belts and stainless-steel bearings for maximum durability. Modular construction enables easy service and exchange of components.











Fixed Mount		
1811A	2RL 905 146-001 - Surface Mount, 12V DC	AMBER
Magnetic Mount		
1811MAGA	2RL 905 146-011 – Magnetic Mount, 12V DC	AMBER
Mounting	Surface Mount (2 x mounting bolts included).  Magnetic Mounting on horizontal surfaces (2 x cushions and ma Supplied with 2.7m cable and 2-pole plug for cigarette lighter or DIN ISO sockets.	,
Voltage	12V DC (globes included)	
Globe to suit	2 x 12V H1 (C1255)	
Note	HELLA Light Bars may be converted to 24V DC input by changing the globes supplied and adjusting the belt rotation speed.  Other lens colours (e.g. Red and Blue) can be supplied at very short notice.	
Spare Parts	9.1811A.01 ■ Amber Lens – 400mm 9.1800.53 Rotator Module Assembly ① 9.1800.91 Drive Belt ②	

#### Magnetic Mounting Kit - KL700 and KL710

1653	8HG 905 129-001 – Magnetic Mounting Kit - KL700 and KL710 KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes sturdy magnetic base (145mm dia.), 1.5m cable and 2-pole plug for the cigarette lighter socket.
Height	35mm.
Suits	All KL700 and KL710 Series Revolving Lamps
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.



8027	8HG 950 835-001 – Magnetic Mounting Kit - Firebolt Plus KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (82mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.
Height	11mm.
Suits	All Firebolt Plus Series Strobe Lamps
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.

## Magnetic Mounting Kit - Firebolt Plus



8029	8HG 950 837-001 – Magnetic Mounting Kit - 602 and 851 Series KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (82mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.
Height	11mm
Suits	All 602 and 851 Series Strobe Lamps
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.

## Magnetic Mounting Kit - 602 and 851 Series



#### 2-Pole Beacon Mount



8007	8HG 002 365-001 – 2-Pole Beacon Mount	KIT
Description	2-Pole Beacon Mount for pipe mounting. Incorporates electrical connect	ion.
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Randel Pipe Mount Revolving and Strobe Lamps.	ger Series

#### 2-Pole Beacon Mount



8007FM	8HG 006 294-011 – 2-Pole Beacon Mount - Flat	KIT
Description	2-Pole Beacon Mount with bracket for attachment on flat cabin roof surf- Incorporates electrical connection.	aces.
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Randeley Mount Revolving and Strobe Lamps.	ger Series

#### 2-Pole Beacon Mount



8007RA	8HG 006 294-111 – 2-Pole Beacon Mount - 90°	KIT
Description	2-Pole Beacon Mount with 90-degree bracket (50mm) for attachment on flat cabin roof surfaces. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Randel Pipe Mount Revolving and Strobe Lamps.	ger Series

#### 2-Pole Beacon Mount



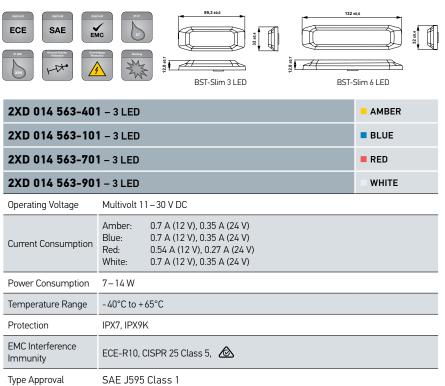
8007SCR	8HG 006 294-091 – 2-Pole Beacon Mount - Screw	KIT
Description	2-Pole Beacon Mount with screw attachment (M24 thread). Incorporates connection.	electrical
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

#### GuardRay® Protective Cages

GuardRay® cages are hot-dip galvanised for corrosion protection and fabricated from heavy welded steel wire with bases pre-drilled to accept the standard mounting holes of all our popular Warning Beacons and Bases. Beacons mount inside the universal base, and the wire cage is then clamped to the base. A nylon lanyard stops the cage from falling during servicing.



HMWGA160	9GH 910 181-011	- Protective Cage - 160mm	GALVANISED
HMWGA220	9GH 910 181-021	- Protective Cage - 220mm	GALVANISED
Dimensions	HMWGA160 HMWGA220	180 x 160mm (d x h) 180 x 220mm (d x h)	
Suits	HMWGA160 HMWGA220	KL7000LED RotaLED DuraRay 4.0 KL700 KL710 KL7000 KLX7000 OptiRay-E UltraRay 2.0/2.1	



2XD 014 562-401 - 6 LED		AMBER		
2XD 014 562-10	<b>1</b> – 6 LED			■ BLUE
2XD 014 562-70	<b>1</b> – 6 LED			■ RED
2XD 014 562-81	<b>1</b> – 6 LED			■■ BLUE/RED
2XD 014 562-901 - 6 LED			WHITE	
Operating Voltage	Multivolt 1	I – 30 V DC		
Current Consumption	Amber: Blue: Red: White:	1.4 A (12 V), 0.7 A (24 V) 1.4 A (12 V), 0.7 A (24 V) 1.1 A (12 V), 0.55 A (24 V) 1.4 A (12 V), 0.7 A (24 V)		
Power Consumption	7–14 W			
Temperature Range	-40°C to +65°C			
Protection	IPX7, IPX9K			
EMC Interference Immunity	ECE-R10, CISPR 25 Class 5 💩			
Type Approval	SAE J595 Class 1 For 2XD 014 562-811 (blue/red): ECE-R65 XR1 and XB1			

#### **BST Slim**

The BST-Slim is a high-performance warning light which is available with 3 or 6 LEDs. There are different warning light colours and various flashing sequences which create a synchronous or alternating signal.

The Dual Colour warning light is ECE-R65 typetested and the rest are SAE approved. It can be used for single, double, triple and quadruple flash as well as with continuous light.

The product with 6 LEDs comes with a "day/night mode" which adjusts the brightness to the ambient light. This provides increased visibility during the day and avoidance of glare at night.



2XD 014 563-701



2XD 014 563-901

2XD 014 562-401



2XD 014 562-101









2XD 014 562-811



2XD 014 562-901

#### **BST Round**

The BST-Round warning light is characterised by its new round design which allows flexible installation in different areas of the vehicle. Four power LEDs and high-quality precision optics generate an intensive warning signal with minimum power consumption.

The warning lights are supplied as a set consisting of a controller, two flasher heads and two mounting rings. The power supply cable has an open end and the mounting rings and mounting brackets allow easy and flexible installation. The BST-Round warning light is extremely temperature resistant due to the high-quality aluminium housing and will operate in a temperature range of -  $40^{\circ}\text{C}$ to + 80°C. The warning lights have different flash patterns, e.g. single flash or double flash. Further details on the different flash sequences can be found in the assembly instructions.





























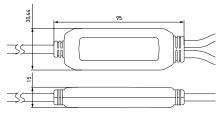




2XD 014 564-001		■ BLUE
2XD 014 564-211		- AMBER
2XD 014 564-60	1	■ RED
2XD 014 564-80	1	WHITE
2XD 014 564-01	1	BLUE/AMBER
2XD 014 564-02	1	■■ BLUE/RED
2XD 014 564-61	1	■■ RED/AMBER
Housing	Aluminium	
Operating Voltage	Multivolt 11 – 30 V DC	
Current Consumption	27 – 33 W	
Power Consumption	2.27 – 2.75 A (12 V) 1.13 – 1.37 A (24 V)	
Temperature Range	-40°C to +65°C	
Reverse Polarity Protection	Yes	
Protection	Lighthead: IP 6X, IP X4K, IP X9K Controller: IP X7	
Accessories	9XD 863 533-101 2 L-brackets ①	
EMC Interference Immunity	ECE-R10, CISPR 25 Class 3 🙆	
Type Approval	ECE R65 For 2XD 014 564-801: SAE J845 Class 1	





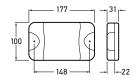


BST-Round with mounting ring (grommet)

BST-Round - Controller







95903701	2XD 959 037-012 - Surface Mount, MultiFLASH®, Multivolt	■ RED
95903711	2XD 959 037-112 - Surface Mount, MultiFLASH®, Multivolt	AMBER
95903761	2XD 959 037-612 - Surface Mount, MultiFLASH®, Multivolt	■ BLUE
95903781	2XD 959 037-812 - Surface Mount, MultiFLASH®, Multivolt	■ GREEN
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC	
Power Consumption	9W continuous (less in flashing modes)	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Spare Parts	9.2330.10       Screw Cap Red (Pack of 4)         9.2330.16       Screw Cap Amber (Pack of 4)         9.2330.13       Screw Cap Green (Pack of 4)         9.2330.11       Screw Cap White (Pack of 4)	
Compliance	SAE J595 Class 1 (Red and amber versions) EMC e4 03 1925	ECE-R10 💩

# HELLA MULTI-FLASH LAMP OPERATING MODES Selectable Flash Patterns 1 2 3 4 5 6 7 8 9 10 250 ms 500 ms 750 ms 1 second

Flashing Options		
Steady state	Lamp operates as a continuous ON signal	
Independent flash	Lamp operates from an external flashing system	
Flash state	Lamp operates in the flash mode preselected by the user	
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)	
The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).		

## DuraLED Multi-flash Signal Warning Lamp

Multivolt™ Warning Lamps for emergency vehicles. The HELLA multi-flash range of Warning Lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison.







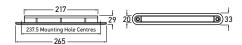


#### LED Wide Rim Strip Warning Lamp

Covert wide rim strip LED Signal Warning Lamp available in red and blue colour variants. Optic appears clear until illuminated. Includes gasket, screws and screw caps.







95907360	2XD 959 073-602 – Recess Mount, 12 Volt DC	■ BLUE
95907365	2XD 959 073-652 – Recess Mount, 24 Volt DC	■ BLUE
95907370	2XD 959 073-702 – Recess Mount, 12 Volt DC	■ RED
95907375	2XD 959 073-752 – Recess Mount, 24 Volt DC	■ RED
Mounting	Two hole recess mount. May be mounted horizontally or vertical	ly
Power Consumption	2W	
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of multi-core cable	
Spare Parts	9GD959155507         Wide Rim Seal           9HD959182007         Clear Screw Cap           9HD959182037         Black Screw Cap	
·		

This lamp requires an external flasher unit such as Part No. 3040. See page 81 for strip lamp accessories.









98091004	2XA 980 910-042 – Surface Mount, Multivolt	WHITE
98091024	2XA 980 910-242 – Surface Mount, Multivolt	■ GREEN
98091044	2XA 980 910-442 – Surface Mount, Multivolt	■ RED
98091064	2XA 980 910-642 – Surface Mount, Multivolt	AMBER
98091074	2XA 980 910-742 – Surface Mount, Multivolt	■ BLUE
Mounting	Upright mounting with three point mount	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC	
Power Consumption	5W	
Protection	Reverse polarity and voltage spike protection.  IP 67 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance	EMC e4 03 1679 ECE-R10	
See page 226 for multi-flash versions. This lamp requires an external flasher unit such as Part No. 3040.		

#### On/Off LED Warning Signal Lamps

Multi-purpose LED 360° Warning Lamps with nylon (PA12) lens available in four signal colours and white. Optics appear clear until illuminated.



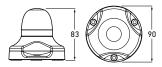
#### LED 360° Multi-flash Signal Lamp

Multi-purpose LED 360° Warning Lamp with clear nylon (PA12) lens, available in four signal colours and white. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison. Optic appears clear until illuminated.







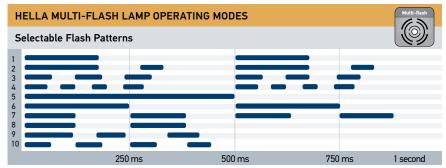








98091100	2XD 980 911-002 - Surface Mount, Multivolt	WHITE
98091120	2XD 980 911-202 – Surface Mount, Multivolt	■ GREEN
98091140	2XD 980 911-402 – Surface Mount, Multivolt	■ RED
98091160	2XD 980 911-602 – Surface Mount, Multivolt	AMBER
98091170	2XD 980 911-702 – Surface Mount, Multivolt	■ BLUE
Mounting	Upright mounting with three point mount	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC	
Power Consumption	Less than 5W (less in flashing modes)	
Protection	Reverse polarity and voltage spike protection.  IP 67 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance	EMC @4 03 1679 ECE-R10 🙆	
Lamps shown illuminate	Lamps shown illuminated (right).	



Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)
The hitz mode overrides the other operating modes and is triggered by switching the hiue cable to pagative (-)	

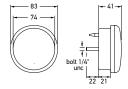
The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).

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95901140	2XD 959 011-402 – Flush Mount, Multivolt	■ RED
95901145	2XD 959 011-452 – Flush Mount, Multivolt	AMBER
95901160	2XD 959 011-602 – Flush Mount, Multivolt	■ BLUE
95901165	2XD 959 011-652 – Flush Mount, Multivolt	■ GREEN
Mounting	Single bolt 1/4" stainless UNC thread. Nut and washer supplied	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC	
Power Consumption	6W continuous (less in flashing modes)	
Protection	Reverse polarity and voltage spike protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	EMC	
See page 79 for mounting accessories.		

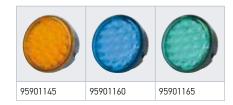
# HELLA MULTI-FLASH LAMP OPERATING MODES Selectable Flash Patterns 1 2 3 4 5 6 7 8 9 10 250 ms 500 ms 750 ms 1 second

Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)
The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).	

#### LED 83mm Round Multi-flash Signal Lamp

83mm diameter round LED Signal Lamps with single bolt mount for emergency vehicles. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison.









# Contents

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## LED LIGHTING TECHNOLOGY - ENERGY EFFICIENT CRISP WHITE LIGHT

HELLA LED based luminaires are sophisticated opto-electronic devices designed to be highly energy efficient and durable, and are a future-proof, low 'Cost-of-Ownership' solution.



In depth design and engineering know how is required to produce durable products with reliable performance year after year. LED based lighting is fast advancing to becoming the logical solution for the cost conscious operator who considers 'Cost-of-Ownership' rather than just the initial purchase price. To design efficient LED luminaires, many factors need to be considered. The LED itself, optics, optic materials, thermal design and drive electronics. These are among the many factors that add up to result in an efficient and durable luminaire.

#### Lens, Optic Technology and Eye Safety

To take advantage of the ever increasing efficacy of the most advanced LEDs, efficient optic design is essential to capture as much of the luminous flux emitted by the LED as possible. An evenly illuminated surface area is evidence of competent optic design. With significant advances in LED brightness, eye safety considerations are increasingly important.

For interior lights it is essential for high power LEDs to be coupled with optic designs that protect the eye's retina. It is desirable for a large portion of the lens area of a luminaire to be evenly illuminated via an efficient optic rather than using a bundle of LEDs without any optic. Easily visible LEDs inside a luminaire without any optic or lens protection can cause a degree or even significant eye discomfort if viewed directly.

A recent US Department of Energy (DOE) report warns of poorly designed LED luminaires, associating low frequency 'Flicker' with the possibility to trigger epileptic attacks in parts of the population that are susceptible.

Well designed LED lighting systems do carry a higher initial price compared to many other lamps now on offer. For most applications, higher efficiency and long term reliability of a competently designed and manufactured LED luminaire is a convincing Value Proposition.

#### Heat and Thermal Management

Competent and well engineered thermal management is essential for the long-term durability of HELLA LED luminaires. A common misconception is that LEDs do not generate heat. LEDs consume power and some of this power is also converted to heat, even in the most energy efficient LEDs.

In contrast to incandescent lamps however, LEDs do not like to 'run hot'. As a rule of thumb the hotter an LED runs, the faster it will degrade and in extreme cases result in a much lower light performance and shorter service life.

A noticeably 'hot to touch' exterior surface of a high power LED interior lamp provides some indication that the light output of the device will deteriorate fast, sometimes within a few hundred hours. Well engineered LED devices will operate 'cool' or 'warm' to the touch after many hours of operation. HELLA has many years of technical expertise in developing good thermal designs, when matched with superior optics and electronic design it ensures the long term durability of all our LED lighting products with minimal degradation over many years of service.

Highly efficient white LED luminaires are becoming a solution that make ecological and economic sense for an ever increasing range of applications.









#### Reliability

Due to the solid state nature of LEDs there are no filaments to break, however LEDs do require precise current control, overvoltage and spike protection to avoid any premature damage.

For LED luminaire designers and manufacturers, in depth design and engineering know how is required to produce durable products with reliable performance year after year.

Considerations such as hermetically sealed housings, sealed cable entries, effective electronic protection, shock, vibration and impact resistant components all contribute towards long term reliability. Compared to incandescent lighting, where a filament inside a globe may break at any moment, HELLA LED lighting is designed as a reliable Fit and Forget solution.

#### **Colour Temperature and Rendering**

LED based lighting has had a reputation for appearing 'cold' and 'blue' due to their phosphorous coating technology.

However today's high efficacy devices can rival traditional incandescent light sources for colour and ambience. When selecting LED interior lighting, colour temperature is an important consideration.

	1850 K	Candle
	2800 K	Halogen Globe (Incandescent Lamp)
	2500-3200 K	Warm White LED
	4600K-5600 K	Crisp White LED
ı	6500 K	Daylight

Colour temperature is measured in Kelvin (K) and describes the effect of heating an object until it glows incandescently. The emitted radiation, and apparent colour changes in proportion to the temperature; envisioned when considering hot metal in a forge that glows red, then orange, and then white as the temperature increases.

HELLA describes higher colour temperatures (4600 K to 5600 K) as 'crisp white' and lower colour temperatures as 'warm white'.

'Neutral white' is considered around 4200 K range. Crisp white is recommended for visual tasks, work areas and exterior lighting.

Warm white is suggested for interior spaces as it adds life and vibrancy to people and objects. It is considered more flattering to skin tones or fabrics and makes food look fresh and attractive.

## **NEW DIMMABLE LOGOS** WHAT DO THEY MEAN?

Logos used throughout the Interior/Exterior section to help quick referencing of important product features are explained below.



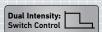
Light intensity is reduced as the DC input voltage is reduced below the lamps specified operating voltage.



Light intensity is controlled through the lamp's own internal circuitry via in-built buttons, an external DC power source and a standard switch. See specific lamp instructions for further information.



Light intensity is adjusted between 10-100% using a high frequency PWM (pulse width modulation) DC power supply, with adjustable duty cycle control.



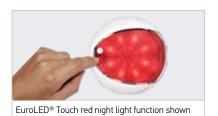
Light intensity can be switched between 100% and a lower level factory pre-set value, usually via an additional cable input supplied with the lamp using a positive feed from the DC power supply within the lamps operating voltage range.

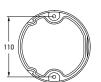
#### EuroLED® White/Red Touch Lamps

Dual colour EuroLED® Touch Lamps with dimming and momentary switch control. Touch the white or red pads for on/off, hold finger to cycle through dimming levels. Provides ultra long service life and is shock and vibration proof. Clear lens.















2JA 959 950-111 - Black Shroud	■ WHITE/RED
2JA 959 950-121 - White Shroud	WHITE/RED

Mounting	Two hole surface mount with mounting bushes supplied		
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts		
Power Consumption	White: 4W Red: 1.5W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Accessories	8HG 959 952-002 Mounting spacer - Black 8HG 959 952-012 Mounting spacer - White 9HD 959 027-007 EuroLED® Cover - Black 9HD 959 027-017 EuroLED® Cover - White		
Compliance	(€ 💩		



See page 78 for EuroLED® accessories.

## **EuroLED®**

Advanced LED Lamps with touch sensitive switching. Power saving and ultra durable.

Lighting control is beautifully simple. Touch the colour pad for red light and the white pad for white light. On the dual colour versions, hold your finger on the pad for more than two seconds and the lamp will cycle through four dimming levels. Release your finger on the light level required.

Dual colour EuroLED® Touch lamps can also be remotely operated from multiple points with 'off the shelf' ON/ OFF/ON momentary switches. Holding one of the external switches for two seconds will synchronise the lamps to the same dimming level.

Light levels are 'remembered' by the lamps circuitry, even when a vehicle's batteries are turned off.











Designed and manufactured in New Zealand, EuroLED® Touch lamps provide red/white, or white only light using the latest completely sealed touch sensitive technology.



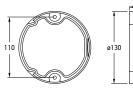
The lamp will always turn on at the colour intensity previously set, regardless of power interruption.

EuroLED® Touch power consumption is 4W on white (0.33A @ 12V) and less than 1.5W on red (less than 0.125A @ 12V) to provide significant power savings.

The durability of EuroLED® Touch Lamps is outstanding. Each lamp is completely waterproof, impact and shock resistant, for an ultra long service life. Multivolt circuitry provides optimum brightness across a range of input voltages from 9-33V DC, even under severe voltage fluctuations.



2JA 959 950-551 - Black Shroud



WHITE

## **EuroLED® White Touch Lamps**

White single LED lamp with touch switching and clear lens. Touch the white pad to turn on and the black pad to turn off. Provides ultra-long service life and is shock and vibration proof.





2JA 959 950-561 - White Shroud		
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for ontimum brightness at input voltage from 9 to 33 v	

Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts	
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection.  IP 6K6 (Protection against dust and high-pressure water jets)  IP 6K7 (Protection against temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Accessories	8HG 959 952-002 Mounting spacer - Black 8HG 959 952-012 Mounting spacer - White 9HD 959 027-007 EuroLED® Cover - Black 9HD 959 027-017 EuroLED® Cover - White	
Compliance	(€ 💩	
See page 78 for EuroLED® accessories.		

95982050	2JA 959 820-502	2	WHITE
Mounting	Two hole surface mount with mounting bushes supplied		
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts		
Power Consumption	4W		
Protection	Reverse polarity and transient spike circuit protection.  IP 6K6 (Protection against dust and high-pressure water jets)  IP 6K7 (Protection against temporary water immersion)		
Cable Length	Pre-wired with 2.5r	n of sheathed multi-core cable	
Accessories	8HG 959 952-002 8HG 959 952-012 9HD 959 027-007 9HD 959 027-017	Mounting spacer - Black Mounting spacer - White EuroLED® Cover - Black EuroLED® Cover - White	
Compliance	(€ 💩		
See page 78 for EuroLED® accessories.			

#### EuroLED® Lamp

White single LED Lamp with clear lens. Provides ultra long service life and is shock and vibration proof. Includes a black and a white rim. No switching or dimming.

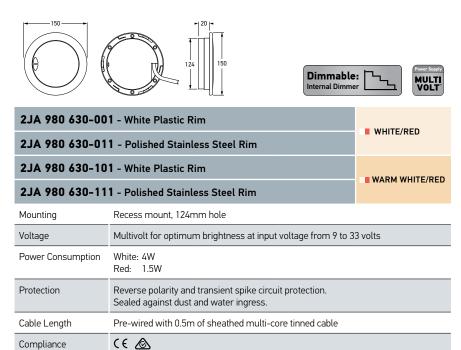


#### EuroLED® Touch 150 Downlights -**Dual Colour**

Dual colour EuroLED® Touch Lamps with dimming and momentary switch control. Touch the white pad for on/off, hold finger on the pad to cycle through dimming levels. Provides ultra long service life and is shock and vibration proof. Clear lens.







#### EuroLED® Touch 150 Downlights -Single Colour

White single LED Lamp with touch switching and clear lens. Touch the white pad to turn on and the black pad to turn off. No dimming. Provides ultra long service life and is shock and vibration proof.







Sealed cable entry

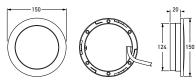


2JA 980 630-50	WHITE	
2JA 980 630-511 - Polished Stainless Steel Rim		
2JA 980 630-60	WARM WHITE	
2JA 980 630-61	- WARM WHILE	
Mounting	Recess mount, 124mm hole	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 v	rolts
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable	

(€ 💩

Compliance





#### EuroLED® 150 Downlights

White single LED Lamp with clear lens. Provides ultra long service life and is shock and vibration proof. No switching or dimming.



2JA 980 631-601	Packaging

2JA 980 631-501 - White Plastic Rim	MUITE
2JA 980 631-511 - Polished Stainless Steel Rim	WHITE
2JA 980 631-601 - White Plastic Rim	WARM WILLTE
2JA 980 631-611 - Polished Stainless Steel Rim	WARM WHITE

23A 700 031-01	1 - 1 otisied Staintess Steet Killi	
Mounting	Recess mount, 124mm hole	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts	
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable	
Compliance	(€ 💩	

## 

#### Illumination Charts Explained

Our light performance charts show luminance and spread in an easy to read format. At the top is the spread, with the boundary threshold being defined as half the peak luminance. While there is light beyond the indicated angles, the majority of light will be inside the cone shown.

The difference between lux (illuminance) and lumen (luminous flux) is that lux takes into account the area over which the luminous flux is spread. Accordingly the lux figure decreases with distance. Most interior lamps will be installed at around the 2-2.5 metre height.

As a guideline, some 40-100 lux is required for corridors and passageways, around 300 lux for reading and 500-800 lux for offices.

The spread pattern may not be designed symmetrical so the spread horizontally (H) and vertically (V) are given.

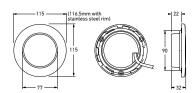
Luminance is additive, meaning overlapping light patterns or multiple lamps lighting the same surface add their luminance.

#### EuroLED® 115 Downlights -With White Spacer

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.







2JA 980 828-002 - White Plastic Rim





2JA 980 820-002	WHITE		
2JA 980 820-012 - Polished Stainless Steel Rim		WHILE	
2JA 980 820-102 - White Plastic Rim		- WARM WUITE	
2JA 980 820-112 - Polished Stainless Steel Rim			
Mounting	Recess mount, 90mm hole. Surface mount via optional spacer		
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts		
Power Consumption	4.5W		
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable		
Compliance	( € 💩		

#### EuroLED® 115 Downlights -With White Spacer and Switch

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.



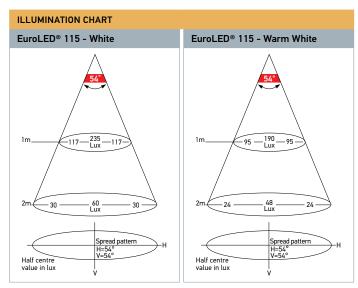


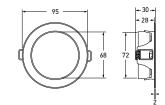


EuroLED® 115 Downlights with switch, expanded view.



		WHITE
2JA 980 828-012 - Polished Stainless Steel Rim		WIIII
2JA 980 828-102 - White Plastic Rim		WADM WILLTE
2JA 980 828-11	WARM WHITE	
Mounting	Recess mount. Surface mount via spacer	
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33	volts
Power Consumption	4.5W	
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.	
Compliance	(€ 💩	







2JA 958 340-011	WHITE
2JA 958 340-101	■ WHITE/RED
2JA 958 340-111	■ WHITE/BLUE
2JA 958 340-021	WARM WHITE
2JA 958 340-121	WARM WHITE/RED
2JA 958 340-131	■ WARM WHITE/BLUE
M .: D	

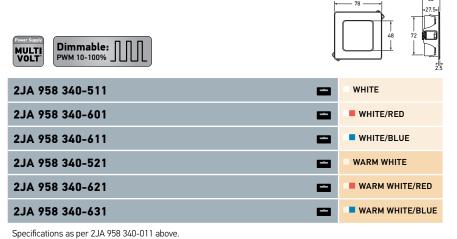
Mounting	Recess mount, 76mm diameter hole. Spring clip.	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts	
Power Consumption	6W	
Protection	IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	Pre-wired with 120mm of cable	
Compliance	( € 💩	

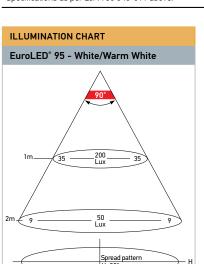
#### EuroLED® 95 Gen 2 Round Down Lights - Recess Mount With Spring Clip

The next generation of LED high intensity down lights offers an improved class leading efficiency and durability. The smooth diffused lens creates a comfortable and uniform appearance with over 420 lumens of actual light in a broad and even illumination.









#### EuroLED® 95 Gen 2 Square Down Lights - Recess Mount With Spring Clip

The next generation of LED high intensity down lights offers an improved class leading efficiency and durability. The smooth diffused lens creates a comfortable and uniform appearance with over 420 lumens of actual light in a broad and even illumination.



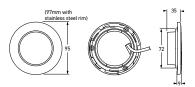


#### EuroLED® 95 Downlights -**Recess Mount**

Round LED high Intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.









Dimmable: PWM 10-100%

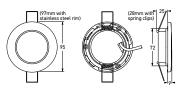
2JA 980 940-00	1 - White Plastic Rim	WHITE
2JA 980 940-011 - Polished Stainless Steel Rim		- Willie
2JA 980 940-101 - White Plastic Rim		WARM WHITE
2JA 980 940-11	1 - Polished Stainless Steel Rim	WARM WHILE
Mounting	Recess mount, 72mm hole. Screw mount.	
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33	volts
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable	
Compliance	(€ 💩	

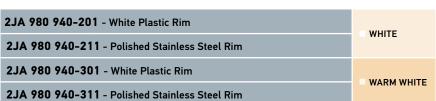
#### EuroLED® 95 Downlights -**Recess Mount With Spring Clip**

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.

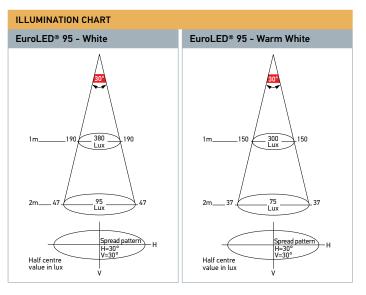






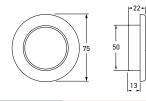


Mounting	Recess mount, 72mm hole. Spring clip.	
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts	
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable	
Compliance	(€ 💩	









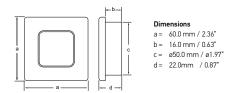
2JA 958 110-03	1 - 12 Volt DC	MULTE	
2JA 958 110-13	1 - 24 Volt DC	WHITE	
2JA 958 109-03	1 - 12 Volt DC	WARM WILLE	
2JA 958 109-13	1 - 24 Volt DC	WARM WHITE	
Mounting	Recess mount, 50mm diameter hole		
Voltage	12V DC or 24V DC		
Power Consumption	<3W		
Protection	IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)		
Cable Length	Pre-wired with 130mm of cable		
Supplied Rims	95950590 Black plastic rim - EuroLED® 95 95950585 White plastic rim - EuroLED® 95		
Compliance	<u></u>		
Additional rims and hou	sings are available see page 257.		

### EuroLED® 75 Down Lights - Recess Mount

This Downlight features the latest in LED technology and is available in two white colour temperatures. Both the cool white and the warm white option feature a smooth, evenly distributed illumination and an optic specifically designed to reduce individual light source glare, which can lead to discomfort and eye strain. Each Downlight includes a black and a white plastic rim.







2JA 015 014-021 - Chrome Plated Trim, 12 Volt DC	
2JA 015 014-011 - White Plastic Trim, 12 Volt DC	WILLE
2JA 015 014-121 - Chrome Plated Trim, 24 Volt DC	WHITE
2JA 015 014-111 - White Plastic Trim, 24 Volt DC	
2JA 015 014-221 - Chrome Plated Trim, 12 Volt DC	
2JA 015 014-211 - White Plastic Trim, 12 Volt DC	WA DIA WUITE
2JA 015 014-321 - Chrome Plated Trim, 24 Volt DC	WARM WHITE
2JA 015 014-311 - White Plastic Trim, 24 Volt DC	

Mounting	Screw
Voltage	12V DC (9-16V DC) 24V DC (18-33V DC)
Power Consumption	3W ( <0.19A @ 12V DC) 3W ( <0.09A @ 24V DC)
Protection	IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
Cable Length	Pre-wired with 120mm tinned marine cable

#### EuroLED® 75 Square Down Lights

EuroLED® 75 LED down lights offer style, performance and energy efficiency for interior and exterior applications, provide long lasting, reliable illumination for your vessel.

Available in warm white and white, these lamps have a high colour rendering index of 85+ (CRI), offering exceptional colour rendering of objects and surfaces to beautifully enhance the materials of your vessel.

With an impressive output of 190 lumen and a diffused lens, they create a bright, broad and even illumination.



White Plastic Trim
- Warm white



Chrome Plated Trim - White

#### CargoLED Interior Lamp

Universal LED Interior Lamp featuring state of the art design and robust construction. Equipped with advanced Luxeon Power LED technology and clear acrylic lens for optimum light distribution without glare. The dust-proof housing is made from high quality aluminium and ABS ensuring maximum durability and long service life, even in extremely cold or humid environments. Fully sealed to withstand high-pressure washing.

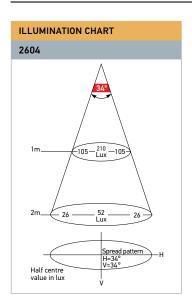








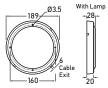
2604	2JB 344 227-001	WHITE
Mounting	Flush Mount	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 v	rolts
Power Consumption	6W	
Temperature Range	-40°C to + 60°C	
Protection	Fully sealed against dust and moisture to IP69	
Cable Length	Pre-wired with 310mm of sheathed multi-core cable	
Compliance	<u></u>	



#### CargoLED Mounting Spacer

Mounting Spacer designed to suit all CargoLED interior lamps. Enables surface mount with side cable exit.

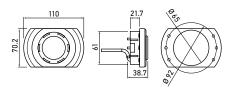




9.2604.05

9XD 344 118-10





2647	2JA 343 700-272	WHITE	
Mounting	Surface Mount. Suitable for horizontal and vertical installation (screw caps included)		
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 v	rolts	
Power Consumption	LED 2.5W CELIS* 0.5W		
Protection	Sealed against dust to IP3X		
Cable Length	Pre-wired with 200mm of sheathed multi-core cable		
Compliance	<b>&amp;</b>		

## SpotLED Blue CELIS® Interior Lamp – Adjustable

Adjustable LED Spotlight featuring impactresistant Polycarbonate lens and advanced LED technology for superior light distribution. The modern blue CELIS® light ring provides additional ambient illumination. Adjustable spot with 20-degree angle to each side.

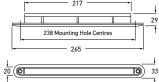




Blue CELIS® - Adjustable light ring

## LED White Interior/Exterior Strip Lamps

White LED Interior Lamp with clear UV-resistant acrylic lens. Ideal for steps, interior or exterior courtesy lighting and storage areas.











			<u>• • • • • • • • • • • • • • • • • • • </u>
2641-12V	2JA 959 073-011 - 12 Volt DC		WHITE
2641-24V	2JA 959 073-211 - 24 Volt DC		WHILE
2641HB-12V	2JA 959 076-501 - 12 Volt DC		HIGH BRIGHTNESS
2641HB-24V	2JA 959 076-631 - 24 Volt DC		WHITE
Mounting	Recess mount		
Power Consumption	<2W		
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Spare Part	959 155-507 Gasket		

#### LED Interior/Exterior Strip Lamps

LED Lamp with clear UV impact-resistant lens and attractive stainless steel cover. Stainless steel bezel features a unique internal tab lock for secure attachment and no visible fastenings.



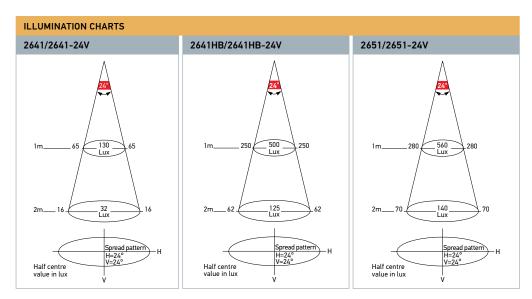




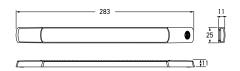




2651	2JA 980 681-012 - 12 Volt DC	WHITE	
2651-24V	2JA 980 681-512 - 24 Volt DC	WHILE	
Mounting	Recess mount		
Power Consumption	<2W		
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		



## CommSafe ((自)) Dimmable: Analog DC Input



2652	2JA 958 124-021 - <b>12 Volt DC</b>	WHITE	
2652-24V	2JA 958 124-421 <b>- 24 Volt DC</b>	WHILE	
Mounting	Surface mount		
Power Consumption	<3W		
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
See page 80 for surface mount strip lamp screw caps			

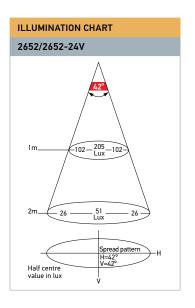
See page 80 for surface mount strip lamp screw caps.

## LED Interior/Exterior Strip Lamps - Surface Mount

LED Lamp featuring a soft white colour temperature and diffused lens for an evenly spread light. Fully sealed for complete protection against water and dust ingress. Includes charcoal and white screw caps.









#### Dimmable: Analog DC Input 2JA 980 881-402 - 12 Volt DC ■ BLUE 2JA 980 881-502 - 24 Volt DC 2JA 980 881-602 - 12 Volt DC ■ RED 2JA 980 881-702 - 24 Volt DC Mounting Surface mount Power Consumption <2W Protection Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) Cable Length Pre-wired with 0.5m of sheathed multi-core tinned cable See page 80 for surface mount strip lamp screw caps.

## LED Courtesy Strip Lamps - Surface Mount

These LED Courtesy Surface Mount Strip Lamps feature a shallow 11mm profile and completely sealed housings. Available in blue and red colour variants.





## LED Interior/Exterior Strip Lamps with Sealed Switch - Surface Mount

These LED interior surface mount strip lamps with sealed waterproof switch feature a shallow 11mm profile, completely sealed housings and class leading efficiency. The range is ideal for a wide range of interior or exterior applications.











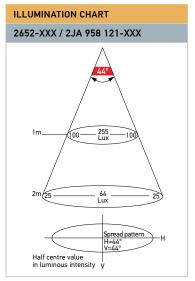




2652-SW	2JA 958 123-021 - <b>12 Volt DC</b>	WHITE	
2652-SW24V	2JA 958 123-421 - <b>24 Volt DC</b>	WHILE	
2JA 958 121-01	2JA 958 121-011 - 12 Volt DC		
2JA 958 121-41	■ WHITE/BLUE		
2JA 958 121-00	WHITE/DED		
2JA 958 121-401 - 24 Volt DC			
Mounting	Surface mount		

Mounting	Surface mount				
Power Consumption	White function:	<3W	Colour function:	<1W	
Protection	As per Part No. 2	652			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Dual colour lamps are pre-wired with 0.5m of twin core cable.				
Spare Parts	9.2652SW.09 9.2652SW.10	1 White switch screw cap + 1 white standard screw cap			

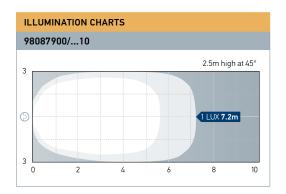
Note: 2652-SW and 2652-SW24V includes charcoal and white screw caps. 2JA 958 121-011, 2JA 958 121-411, 2JA 958 121-001, 2JA 958 121-401 include white screw caps only.



## Dimmable: CommSafe: ((自)) CommSafe: ((自))

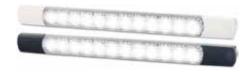
-		#	// _// -//
98087900	2JA 980 879-001 <b>- 12 Vol</b> i	DC	WHITE
98087910	2JA 980 879-101 <b>- 24 Vol</b> i	DC	WHILE
Mounting	Mounting Two hole surface m	ount	
Power Consumption	<3W		
Protection	Reverse polarity protection.  IP 6K7 (Protection against dust and temporary water immersion)  IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of twin core cable		
Lens Material	Nylon (PA12)		
Spare Parts	8HG 958 000-021 8HG 958 000-011	Mounting bracket 45° - Charcoal Mounting bracket 45° - White	

See page 80 for surface mount strip lamp screw caps.



## LED Interior/Exterior Awning Strip Lamps - Surface Mount - 15° Spread

LED Awning Lamp with an ultra slim profile of only 11mm, a heavy duty nylon (PA12) lens and low power consumption of less than 3W, HELLA's new LED Awning Lamp is ideal for interior and exterior use. It comes complete with charcoal as well as white end caps and can be accessorised with a matching 45° mounting bracket to angle the beam further. Combining state of the art technology with sophisticated looks, this new low profile LED Awning Lamp is a lighting solution which will find many applications. The precision optic, with a 15° downwards spread pattern, is designed to cause minimum glare.







#### DuraLED® Combi-S 50 White **LED Lamps**

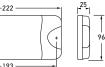
DuraLED® Combi-S 50 White LED lamps are an extremely powerful source of white light and are available in two light patterns, Spread and Wide Spread, to suit a variety of uses including engine rooms, storage lockers or other heavy duty applications where reliability cannot be compromised. Each lamp is completely sealed, UV, impact and shock resistant ensuring an ultra-long service life.





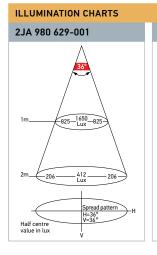


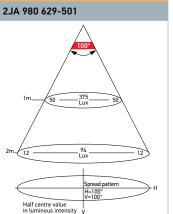


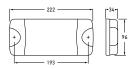




2JA 980 629-50		WIDE SPREAD
2JA 980 629-00	1	SPREAD
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 $$	volts
Power Consumption	<12W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of cable	
Compliance	<b>&amp;</b>	





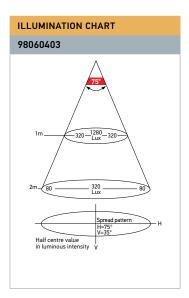








98060403	2JA 980 604-032 – Charcoal Lens	WIDE SPREAD	
Mounting	Two hole surface mount with mounting bushes supplied		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts		
Power Consumption	<12W		
Protection	Reverse polarity and transient spike circuit protection.  IP 6K6 (Protection against dust and high-pressure water jets)  IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Accessories	98071900 Mounting spacer - Black 98071901 Mounting spacer - White		
Lens Material	Nylon (PA12)		
Compliance	(€ 💩		



#### DuraLED® Combi 50 LED Lamp

White high brightness LED Lamp with nylon (PA12) lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<12 watts) and low heat. Spread light is suitable for general area lighting. Lens manufactured from clear nylon (PA12) which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.





98071900

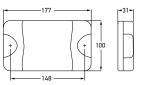


Suitable for all DuraLED® Combi Lamps, see page 16.

#### DuraLED® White 36 LED Lamps

White high brightness LED lamp with nylon (PA12) lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<9 watts) and low heat. Lens manufactured from clear nylon (PA12) which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.





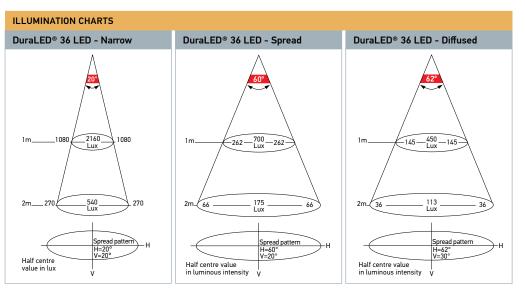






95903741	2JA 959 037-412 – Charcoal Lens	NARROW	
95903720	2JA 959 037-202 – White Lens	CDDEAD	
95903721	2JA 959 037-212 – Charcoal Lens	SPREAD	
Mounting	Two hole surface mount with mounting bushes supplied		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33	volts	
Power Consumption	<9W		
Protection	Reverse polarity and transient spike circuit protection.  IP 6K6 (Protection against dust and high-pressure water jets)  IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Lens Material	Nylon (PA12)		
Compliance	( € 💩		
See page 76 for DuraLED® accessories.			







Mounting

Voltage

Protection

Cable Length

Lens Material

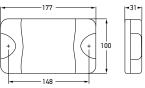
Compliance



2JA 959 037-501 2JA 959 037-511

Power Consumption

Acrylic (€ 💩



	148
1	DIFFUSED
1	SPREAD
Two hole surface mount with mounting bus	hes supplied
Multivolt for optimum brightness at input vo	oltages from 9 to 33 volts
<9W	
See DuraLED® White 36 LED Lamp above	

#### DuraLED® White 36 LED Lamps

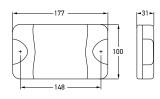
White LED Interior Lamp with either a diffusion or clear acrylic lens. The lamps are shock and vibration proof and are fully sealed against dust and moisture ingress.











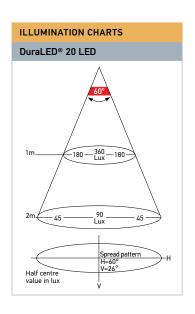
98060801	2JA 980 608-112	WHITE	
Mounting	Two hole surface mount with mounting bushes supplied		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts		
Power Consumption	5W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion	n)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Compliance	( € 💩		
See page 76 for DuraLED® accessories.			

Pre-wired with 2.5m of sheathed multi-core cable

#### DuraLED® 20 LED Wide Spread Lamp

White high brightness LED Lamp. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<5 watts) and low heat. The lamp is fully sealed against dust and moisture ingress.





## DuraLED® White 12 LED Wide Spread Lamp

White high brightness LED Lamp. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<3 watts) and low heat. The lamp is fully sealed against dust and moisture ingress.





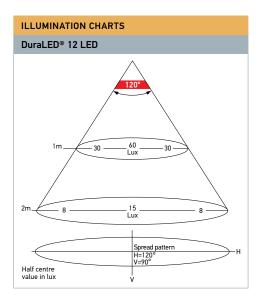








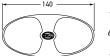
95970010	2JA 959 700-112 – White Shroud	■ WHITE
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Power Consumption	<3W	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporar	y water immersion.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	_
Compliance	(€ 💩	



## DuraLED® White 12 LED Wide Spread Lamps

Multi-purpose LED Lamps offering class leading efficiency and durability.













2JA 959 700-121 - Black Shroud		WHITE
2JA 959 700-711 - Black Shroud WARM WH		
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Power Consumption	<3W	
Colour Temperature	5000K (White) / 3000K (Warm White)	
Temperature Range	-40°C to +60°C	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporar	y water immersion.
Cable Length	Pre-wired with 500mm of sheathed multi-core tinned cable	
Compliance	( € 💩	

#### Power Supply MULTI VOLT





2JA 980 704-001 - White Shroud





WHITE

#### DuraLED® White 12 LED Wide Spread Lamps with Switch

Multi-purpose LED lamps offering class leading efficiency and durability



2JA 980 704-02	1 - Black Shroud	WHITE
2JA 980 704-501 - White Shroud		■ WARM WHITE
2JA 980 704-521 - Black Shroud		WARM WHITE
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Power Consumption	<3W	
Colour Temperature	5000K (White) / 3000K (Warm White)	
Temperature Range	-40°C to +60°C	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 500mm of sheathed multi-core tinned cable	
Compliance	nce C E 💩	

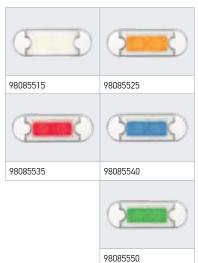


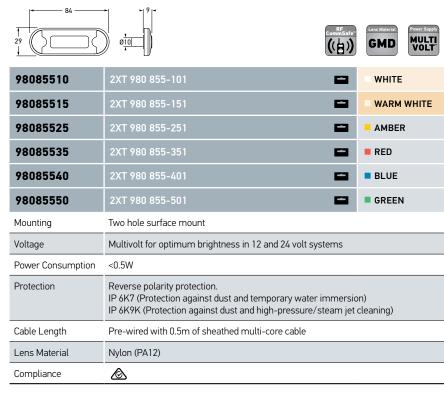
# DuraLED® 12 LED - Wide Spread Lamp/...with Switch 2m 8 15 Lux 8 Spread pattern H=120° V=90° V=

#### DuraLED® Surface Mount Courtesy Lamps - Low Profile

These LED Courtesy Lamps feature a shallow 9mm profile and completely sealed housing. Available in a range of colours. Optic appears clear until illuminated.







#### **DuraLED® Surface Mount Courtesy Lamp Accessories**

Accessory Rims and Screw Caps for the LED surface mount courtesy lamp family.





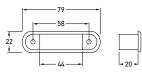
RIMS		
95968500	9AB 959 685-002 – 316 Stainless Steel	■ POLISHED
95968506	9AB 959 685-062 – 316 Stainless Steel	SATIN CHROME PLATED

SCREW CAPS		
9.2310.09BULK	9HD 980 858-007 – Pack of 4	■ BLACK
9.2310.10BULK	9HD 980 858-037 – Pack of 4	■ RED
9.2310.11BULK	9HD 980 858-017 – Pack of 4	WHITE
9.2310.12BULK	9HD 980 858-067 – Pack of 4	■ BLUE
9.2310.13BULK	9HD 980 858-057 – Pack of 4	■ GREEN
9.2310.16BULK	9HD 980 858-027 – Pack of 4	■ GREY

9.2310.10BULK	9.2310.12BULK	9.2310.13BULK	9.2310.16BULK







#### LED Narrow Rim Rectangular Courtesy Lamps

Narrow Rim Flush Mount Courtesy Lamp with either white, red, amber, green or blue LEDs.



95951040	2XT 959 510-402 – 12/24 Volt, Clear lens		WHITE
95951015	2XT 959 510-152 – 12/24 Volt, Clear lens		■ GREEN
95951025	2XT 959 510-252 – 12/24 Volt, Clear lens		■ BLUE
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	ems	
Compliance	(€ 💩		



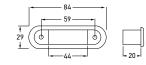


95951031	2XT 959 510-312 - 12 Volt DC	■ RED
95951033	2XT 959 510-332 - 24 Volt DC	■ KED
95951001	2XT 959 510-012 – 12 Volt DC	- AMPED
95951006	2XT 959 510-062 - 24 Volt DC	- AMBER
Mounting	Recess mount	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 120mm of cable	
<u> </u>	·	









LED Wide Rim Rectangular
Courtesy Lamps

Wide Rim Flush Mount Courtesy Lamp with either white, red, amber, green or blue LEDs.



95951080	2XT 959 510-802 – Clear lens	WHITE
95951095	2XT 959 510-952 – Clear lens	■ GREEN
95951065	2XT 959 510-652 – Clear lens	■ BLUE
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Compliance	( € 💩	





95951071	2XT 959 510-712 – 12 Volt DC	■ RED	
95951073	2XT 959 510-732 – 24 Volt DC	■ KED	
95951051	2XT 959 510-512 – 12 Volt DC	AMPER	
95951053	2XT 959 510-532 – 24 Volt DC	- AMBER	
Mounting	Recess mount		
Power Consumption	<1W		
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 120mm of cable		
See page 77 for spare page 77	arts and accessories.		

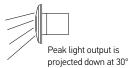


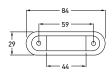
#### LED Wide Rim Rectangular **Courtesy Step Lamps**

Wide Rim, Flush Mount, Courtesy Step Lamp with either white, red, green or blue LEDs. Optic appears clear until illuminated.













projected d	OWITAL 30	
95968080	2XT 959 680-861 - 12/24 Volt Clear lens	WHITE
95968070	2XT 959 680-761 – 12/24 Volt Clear lens	■ RED
95968090	2XT 959 680-941 – 12/24 Volt Clear lens	■ GREEN
95968060	2XT 959 680-641 – 12/24 Volt Clear lens	■ BLUE
Mounting	Recess mount	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 120mm of cable	
Compliance	(€ 💩	
See page 77 for spare page	arts and accessories.	

#### **DuraLED® Surface Mount Courtesy Lamps**

Blue, white or green LED Courtesy Lamps. Optic appears clear until illuminated.

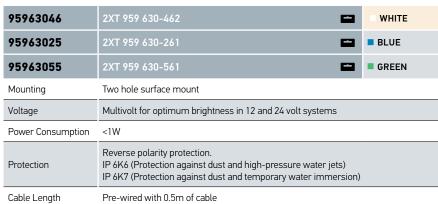






Compliance





See page 77 for spare parts and accessories.

(€ 💩



# LED Interior Lighting To suit your lifestyle choice









#### **LED Round Courtesy Lamps**

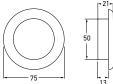
#### - Clear Lens

Attractive, energy efficient Round LED Courtesy Lamps for interior and exterior use. Available in nine exciting colours with a range of different rim finishes. Optic appears clear until illuminated.



98050001







98050001	2XT 980 500-011 – 12 Volt DC	WHITE	
98050101	2XT 980 501-011 – 24 Volt DC		
98050051	2XT 980 500-511 – 12 Volt DC	ENHANCED	
98050151	2XT 980 501-511 – 24 Volt DC	BRIGHTNESS WHITE	
98050021	2XT 980 500-211 – 12 Volt DC	WARM WHITE	
98050121	2XT 980 501-211 – 24 Volt DC	WARM WHITE	
98050071	2XT 980 500-711 – 12 Volt DC	ENHANCED	
98050171	2XT 980 501-711 – 24 Volt DC	BRIGHTNESS WARM WHITE	
98050721	2XT 980 507-211 – 12 Volt DC	■ RED	
98050821	2XT 980 508-211 – 24 Volt DC	■ KED	
98050761	2XT 980 507-611 – 12 Volt DC	■ ORANGE	
98050861	2XT 980 508-611 – 24 Volt DC	- ORANGE	
98050701	2XT 980 507-011 – 12 Volt DC	AMBER	
98050801	2XT 980 508-011 – 24 Volt DC	- AMBER	
98050301	2XT 980 503-011 – 24 Volt DC	■ GREEN	
98050221	2XT 980 502-211 – 12 Volt DC	■ BLUE	
98050321	2XT 980 503-211 – 24 Volt DC	■ BLUE	
Mounting	Recess mount with 50mm diameter hole		
Power Consumption	1W		
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary	orary water immersion.	
Cable Length	Pre-wired with 120mm of cable		
Each lamp includes a bla	ack and a white plastic rim. Additional rims and housings are avail	able as spare parts.	

256



75	
	15

ROUND RIMS - SINGLE			
95950501	9AB 959 505-012 - Plastic	CHROME PLATED	
95950520	9AB 959 505-203 – Plastic	■ BLACK	
95950550	9AB 959 505-503 – 316 Stainless Steel	■ POLISHED	
95950556	9AB 959 505-563 – 316 Stainless Steel	SATIN CHROME PLATED	

ROUND HOUSING			
95999310	8HG 959 993-103 – Plastic	■ BLACK	
95999311	8HG 959 993-113 – Plastic	WHITE	
Housing does not suit high intensity courtesy lamps			

#### **Round Courtesy Lamp Accessories**

Spare Rims for the Round Courtesy Lamp family. One rim is required per lamp.









#### **Square Courtesy Lamp Accessories**

Spare rims for the Square Courtesy Lamp family. One rim is required per lamp.



SQUARE RIMS - SINGLE			
98058501	9AB 980 585-012 <b>– Plastic</b>	CHROME PLATED	

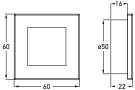
#### **LED Square Courtesy Lamps**

#### - Clear Lens

Attractive, energy efficient Square LED Courtesy Lamps for interior and exterior use. Optic appears clear until illuminated.











00	22	
2XT 980 580-55	1 – White Plastic Rim, 12 Volt DC	
2XT 980 580-57	1 – Chrome Plated Rim, 12 Volt DC	WHITE
2XT 980 581-57	1 – Chrome Plated Rim, 24 Volt DC	
2XT 980 580-75	1 - White Plastic Rim, 12 Volt DC	
2XT 980 580-77	1 - Chrome Plated Rim, 12 Volt DC	WARM WHITE
2XT 980 581-75	1 – White Plastic Rim, 24 Volt DC	WARM WHITE
2XT 980 581-77	1 – Chrome Plated Rim, 24 Volt DC	
2XT 980 582-25	1 – White Plastic Rim, 12 Volt DC	
2XT 980 582-27	■ BLUE	
2XT 980 583-25	1 – White Plastic Rim, 24 Volt DC	
2XT 980 587-27	1 – Chrome Plated Rim, 12 Volt DC	
2XT 980 588-25	1 – White Plastic Rim, 24 Volt DC	■ RED
2XT 980 588-27	1 – Chrome Plated Rim, 24 Volt DC	
Mounting	Recess mount, 50mm diameter hole	
Power Consumption	1W	

Mounting	Recess mount, 50mm diameter hole		
Power Consumption	1W		
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 120mm of cable		
Additional rims and housings are available as spare parts.			











98067030	1GA 980 670-421 – Spread	WHITE	
Mounting	Upright or Pendant		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33	volts	
Power Consumption	3W		
Max. Light Output	200 lumens		
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Lens Material	Nylon (PA12)		
Compliance	(€ 💩		

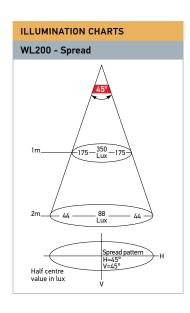
#### DuraLED® WL200 Work Lamps

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant nylon (PA12) lens. Option of two light patterns, narrow or spread.









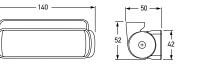
#### **DuraLED® WL550 Work Lamps**

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant nylon (PA12) lens. Option of two light patterns, spread or wide spread.



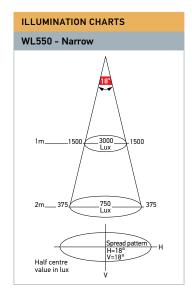


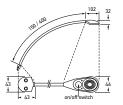






98057330	1GA 980 573-301 – Narrow WHIT	
Mounting	Upright or Pendant	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33	volts
Power Consumption	7W	_
Max. Light Output	550 lumens	
Protection	Reverse polarity and voltage spike protection.  IP 6K7 (Protection against dust and temporary water immersio IP 6K9K (Protection against dust and high-pressure/steam jet of the second	•
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance	(€ 💩	





#### LED Flexible Map Reading Lamps

LED Map Reading Light featuring a strong flexible shaft and an on/off switch on the lamp head. Low power consumption.



2638	2JA 346 720-021	150MM
2639	2JA 346 720-121	400MM
Mounting	Screw Mount	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 v	rolts
Power Consumption	2.4W	
Protection	Reverse polarity protection. IP 53 (Protection against dust and water spray)	
Cable Length	Pre-wired with 150mm of cable	

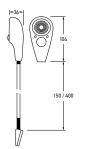


2JA 343 720-522

Compliance

Suitable for interior use only.

(€



■ WHITE/RED 150MM

#### LED Flexi Chart Table Lamps

LED Map Reading Light featuring a strong flexible shaft and an on/off switch on the lamp head. Low power consumption.



- TON 040 / LU 011				
2JA 343 720-622		■ WHITE/RED	400MM	
Mounting	Screw Mount			
Voltage	Multivolt for optimum brightness at input v	oltage from 9 to 31 v	olts	
Power Consumption	2W			
Protection	Reverse polarity protection. IP 53 (Protection against dust and water sp	ray)		
Cable Length	Pre-wired with 120mm of twin core cable			
Compliance	<b>(</b> €			
Suitable for interior use only.				

#### **Roof Lamp**

Brilliant-finished rim.





2605	2JA 003 231-01:	CHROME LOOK RIM	
Voltage	Globe to be ordered separately		
Mounting	Surface Mount		
Function	3 position on / off / door contact switch (suitable for positive door contact only)		
Globes to Suit	2 x 6V 2 x 12V 2 x 24V	K610 K1210 K2410	

#### Interior Lamp - Polycarbonate Base with Switch

Complete with on/off switch. Suitable for insulated earth circuits.

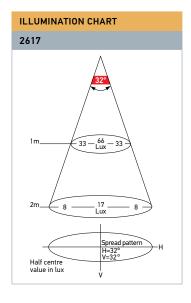


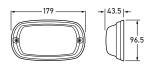






2617	2JA 950 959-001		■ WHITE RIM
Globes to Suit	12V 24V	K1210 K2410	
Spare Part	2.9800.08	Clear Lens	



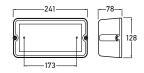


#### Roof Lamp

Chrome rim and rubber base. Two globe holders. Suitable for insulated earth circuits.



2612	2JA 905 253-001		CHROME RIM
Voltage	Globe to be ordered separately		
Mounting	Surface Mount		
Globes to Suit	2 x 6V 2 x 12V 2 x 24V	L65 L125/K1210 L245/K2410	
Spare Parts	2.9801.05 2.6826.03	Lens Chromed Rim	



2621	2JA 007 750-012	WHITE BASE
Voltage	Globes to be ordered separately	
Mounting	Surface Mount	
Globes to Suit	12V (FD1221) Bayonet base 240V 40W Max	
Spare Part	9.2620.01 Lens	
Note	For exterior use only	

#### Caravan Entry Lamp

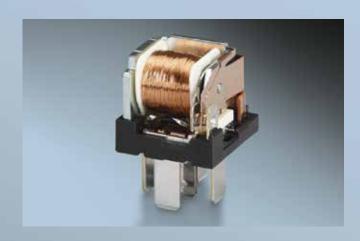
White base with two globe holders - 240V AC bayonet base and 12V DC bayonet base.





### Relays and Flasher Units

HELLA manufactures more than 100 million units per year and thanks to optimised production, HELLA relay and flasher units consistently benchmark with the highest reliability in the industry.





## Contents

#### Relays and Flasher Units

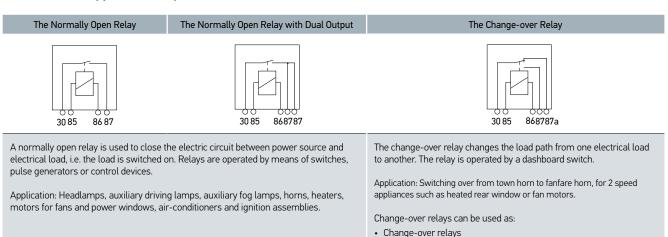
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#### **HELLA RELAYS**

HELLA offers a comprehensive range of relays to suit 12 and 24 volt applications. Quality accessories facilitate the expansion into new applications and provide customers with new solutions.

COMMON PIN DESIGNATIONS FOR RELAYS					
Pin No.	Description				
85/2	Earth (end of winding to ground or negative)	Eliminating Voltage Spikes			
86/1	Positive	Voltage spikes from 300V to 500V can occur momentarily when a relay is switched off. Sensitive electronic equipment can			
87/5	Output (to consumer e.g. driving lamp)	be damaged or malfunctions can occur if these spikes reach the			
87a/4	Alternative output (1st output, break side)	vehicle electrical network without suppression. A relay with a diode eliminates voltage spikes completely.			
30/3	Positive supply (Input from + battery terminal, direct)	and the same and the same to t			

#### The Different Types of Relays



 Normally open relays · Normally closed relays

Relays have been predicted to be obsolete in modern vehicles, however the automotive industry needs relays since relay functions cannot always be replaced by control units. Only relays make "galvanic isolation" possible between input and output. Semi-conductor devices cannot manage this at the moment. Another positive factor is the cost advantage relays have compared with an electronic solution.

In motor vehicles, relays are used to switch high currents. For example, the engine control unit is switched by a relay. Their sturdiness allows them to be installed near electric consumers. As only low control currents are required, the cable cross-sections can be kept small. The switching/amplifier function of a relay can only be achieved with a lot more effort and a lot less reliability using "modern" electronics. An additional advantage is that the replacement of a relay is quick and easy. These characteristics guarantee that relays will have a regular place in many vehicles for a long time to come.

#### Trust in our Quality Relays

- Production expertise: HELLA produces more than 100 million relays per year. Thanks to optimised production we can offer a competitive price for customers. HELLA relays have an extremely low failure rate.
- OEM customers: HELLA develops and produces relays for AGCO, Claas, Daimler AG, Ford, VW, GM, JCB, Opel, Nissan, John Deere, Chrysler and Jaguar/Land Rover among others. We have been working with many customers for decades.

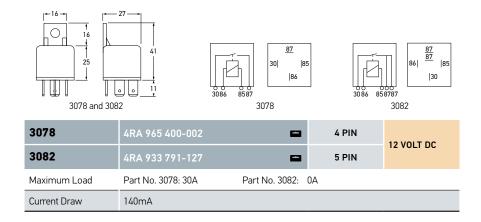
#### **RELAY QUICK REFERENCE CHART**

MINI RELAYS - NO	MINI RELAYS - NORMALLY OPEN							
	Voltage	Pins	Function	Protection	Maximum Load	Current Draw	Bracket	Description
3078	12V DC	4	N/0		30A	140mA	Yes	
3053	12V DC	4	N/0	Diode	40A	170mA	Yes	
3059	12V DC	4	N/0	Diode	50A	210mA	Yes	Terminals 30 and 87 are 8.1mm terminals
3082	12V DC	5	N/0		40A	140mA	Yes	_
3055	12V DC	5	N/0	Diode	40A	170mA	Yes	
3079	24V DC	4	N/0		30A	70mA	Yes	_
3054	24V DC	4	N/0	Diode	22A	90mA	Yes	
3060	24V DC	4	N/0	Diode	30A	90mA	Yes	Terminals 30 and 87 are 8.1mm terminals
3056	24V DC	5	N/0	Diode	22A	90mA	Yes	
MINI RELAYS - N	ORMALLY O	PEN FUSE	ED					
3076	12V DC	4	N/0		25A	140mA	Yes	
3077	24V DC	4	N/0		15A	80mA	Yes	
MINI RELAYS - CH	HANGE-OVE	R						
3080	12V DC	5	N/O-N/C		30-87, 30A/30-87a, 20A	140mA	Yes	
3057	12V DC	5	N/0-N/C	Diode	30-87, 40A/30-87a, 15A	170mA	Yes	_
				,			-	
3081	24V DC	5	N/O-N/C		30-87, 20A/30-87a, 10A	70mA	Yes	
3058	24V DC	5	N/0-N/C	Diode	30-87, 22A/30-87a, 10A	90mA	Yes	
HIGH CAPACITY R								
3084	12V DC	4	N/0		60A	140mA	Yes	Terminals 30 and 87 are 9.5mm terminals
3061	12V DC	4	N/0		180A peak (100A continuous)	380mA	Yes	
	00/50	, _	N1/2			F0 :		T : 1 00 100 05 : : : :
3085	24V DC	4	N/0		60A	70mA	Yes	Terminals 30 and 87 are 9.5mm terminals
3062	24V DC	4	N/0		80A peak (60A continuous)	180mA	Yes	
TIME CONTROL R	ELAYS							
3086-12V	12V DC	5	N/0-N/C	Contact of	opened 10A, Contact closed 20A	A 30min	Yes	
3087-12V	12V DC	5	N/O-N/C	Contact of	opened 10A, Contact closed 20A	A 30min	Yes	
3086-24V	24V DC	5	N/O-N/C	Contact	onened 10A Contact closed 204	\ 30min	Yes	
	-	5 5			opened 10A, Contact closed 20A			
3087-24V	24V DC	5	N/0-N/C	Contact (	opened 10A, Contact closed 20A	4 JUMIN	Yes	

#### Normally Open Mini Relays



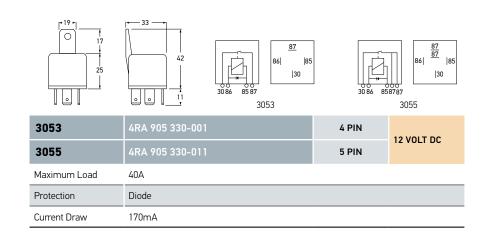
3078 and 3082



#### Normally Open Mini Relays with Diode

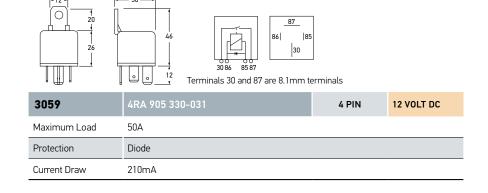


3053 and 3055



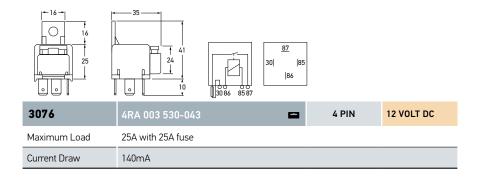
#### Normally Open Mini Relay with Diode

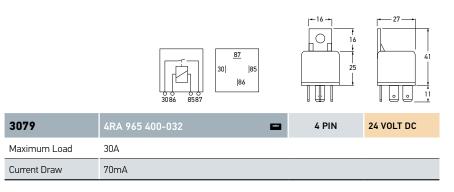




#### Normally Open Fused Relay

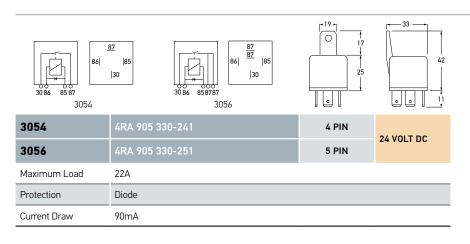






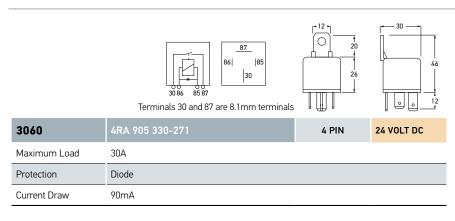
#### Normally Open Mini Relay





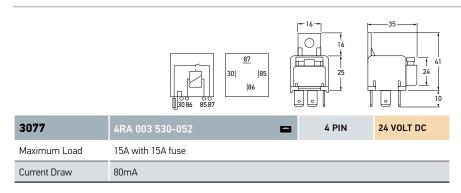
#### Normally Open Mini Relays with Diode





#### Normally Open Mini Relay with Diode



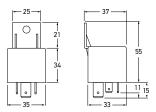


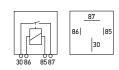
#### Normally Open Fused Relay



#### High Capacity Normally Open Relay



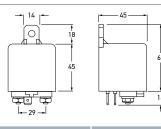




3084	4RA 003 437-088	4 PIN	12 VOLT DC
Maximum Load	60A		
Current Draw	140mA		

#### High Capacity Normally Open Relay



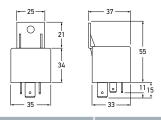


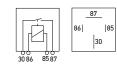


3061	4RA 905 330-041	4 PIN	12 VOLT DC
Maximum Load	180A peak current (100A continuous)		
Current Draw	380mA		

#### High Capacity Normally Open Relay





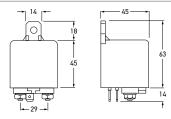


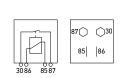
Terminals 30 and 87 are 9.5mm terminals

3085	4RA 003 437-098	4 PIN	24 VOLT DC
Maximum Load	60A		
Current Draw	70mA		

#### High Capacity Normally Open Relay

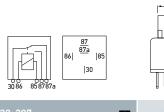






Terminals 30 and 87 are 6mm studs

3062	4RA 905 330-281	4 PIN	24 VOLT DC
Maximum Load	80A peak current (60A continuous)		
Current Draw	180mA		

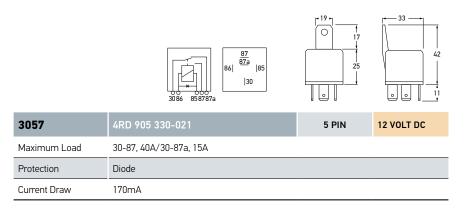


16 16	27
	0 0 11

#### Change-over Relay

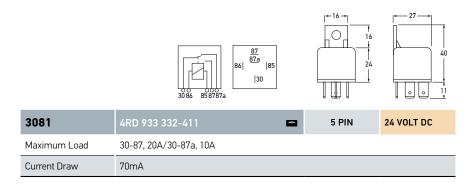


3080	4RD 933 332-397	5 PIN	12 VOLT DC
Maximum Load	30-87, 30A/30-87a, 20A		
Current Draw	140mA		



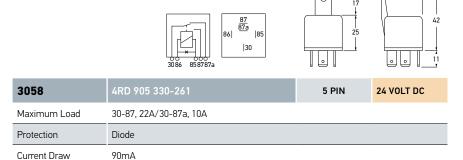
#### Change-over Relay with Diode





#### Change-over Relay





#### Change-over Relay with Diode



#### Weather Proof Change-over Relays

Weather Proof Relay and connector assembly kits.





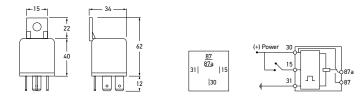


HMWPR001	8KW 910 182-001	12 VOLT DC	
HMWPR002	8KW 910 182-011	24 VOLT DC	
Voltage	12V 10 - 16V DC 24V 20 - 28V DC		
Operating Range	-40°C to +125°C		
Contact Current Rating	12V NO 35A / NC 20A 24V NO 40A / NC 30A		
Coil Resistance	12V 70-90 Ohms @ 23°C 24V 300 Ohms		
Transient Suppressor Resistor	12V 680 Ohms 24V 2700 Ohms		
Kit Contents	ISO mini relay and connector assembly kit contains:  1 x ISO-style changeover relay.  1 x Connector body with seals for pull to seat terminals.  3 x Large barrel pull to seat terminal 6.3mm width suits cable size 3.00mm²  2 x Small barrel pull to seat terminal 6.3mm width suits cable size 1.00 - 2.00mm²		

#### Time Control Units with **Drop-out Delay**

Relay with manually adjustable drop-out delay function, 0 – 900 seconds.



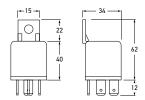


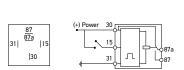
3086-12V	5HE 996 152-131	5 PIN	12 VOLI DC
3086-24V	5HE 996 152-141	3 FIN	24 VOLT DC
Maximum Load	Contact opened 10A Contact closed 20A/30min		
Protection IP 50 (Protection against dust)			
Switching terminal 15 starts timing.			

#### Time Control Units with Pick-up Delay

Relay with manually adjustable pick-up delay function, 0 – 900 seconds.



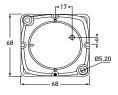


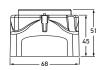


3087-12V	5HE 996 152-042	5 PIN	12 VOLT DC	
3087-24V	5HE 996 152-171		24 VOLT DC	
Maximum Load	Contact opened 10A Contact closed 20A/30min			
Protection IP 50 (Protection against dust)				
Switching terminal 15 starts timing.				

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3099	4RD 980 830-001	-	12/24 VOLT DC
Voltage Multivolt, suitable for 12 and 24 volt systems.			
Mounting	Recess or surface mount.		
Max. Continuous Load 140A			
Termination	2 x 6mm studs		

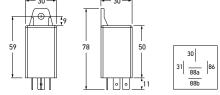
#### Voltage Sensitive Relay Module

Digital Voltage Sensitive Relay with dual sensing for 12 and 24 volt systems. Suitable for boats, caravans and 4WD vehicles, this relay allows a separate battery to be used independently from another battery permitting, for example, the starting battery not to be discharged. However when either battery is charged, the relay will connect both batteries to allow dual charging. Very low power consumption (less than 2mA) or none in power storage mode.





The Voltage Sensitive Relay installation must be protected by a suitably rated fuse.



3101	5DS 980 818-501	
3101BULK	5DS 980 818-507	B0X 0F 20
Voltage	Multivolt, suitable for 12 and 24 volt systems.	
Max. Continuous Load	5A	
Compliance	<u>&amp;</u>	

WIRING SPECIFICATIONS		PRE-SET VOLTAGE LIMITS AND OPERATION			
Terminal No.	Connect to	System	VSR turns outputs ON when	VSR turns outputs 0FF when	
30	Battery (+)	Voltage			
		12V DC	Battery voltage is	Battery voltage is below	
31	Earth return (-)		above 13.4V DC	12.8V DC	
86	Activate (+) / Deactivate	24V DC	Battery voltage is	Battery voltage is below	
	VSR (- or open)		above 26.8V DC	25.6V DC	
88a & 88b		Note	The pre-set voltage value	es stated above may vary by */- 3%.	

#### Voltage Sensitive Relay (VSR)

The Voltage Sensitive Relay (VSR) is designed to automatically monitor the battery condition of your vehicle through constant voltage measurements. Then depending upon the voltage level the VSR will activate or deactivate the connected load to prevent the battery from over-discharging.



3101 Voltage Sensitive Relay

4973	8JA 003 526-005	
4973BULK	8JA 003 526-006	PACK OF 30
Mounting Single screw mounting.		
To Suit 4 and 5 pin relays with 6.3mm flat pin connectors.		
Part No. 3076 and 3077 are not suitable for multiple installation using this connector.		

#### Mini Relay Connector

Single screw mounting. Sturdy plastic casing. Supplied with 5 blade terminals. Several holders may be joined together.





The smart controller is designed to simplify the installation of HELLA's LED Safety DayLights™ (SDL) range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

The smart controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.



Advanced and standard versions available.



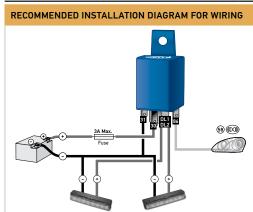






3090	5DF 980 818-011 – (Advanced*)	-
3090BULK	5DF 980 818-017 – (Advanced*)	Pack of 20
3091	5DF 980 818-001 – (Standard)	-
3091BULK	5DF 980 818-007 – (Standard)	Pack of 20
Voltage	Multivolt, suitable for 12 and 24 volt DC systems.	
Maximum Continuous Load	20W	
To Suit	HELLA LED Safety DayLights™ range.	

Features a Safety DayLights  $^{\text{TM}}$  OFF delay of approximately 10 seconds.



WIRING SPECIFICATIONS		
Terminal Number	Connect to	
30	Battery (+)	
31	Earth return (-)	
86	Front position or headlamps (+)	
DL1 & DL2	Safety DayLights™ (+)	

#### Safety DayLights™ Smart Controllers

This Smart Controller is designed to simplify the installation of HELLA's LED Safety DayLights™ range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

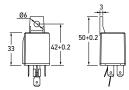
The Smart Controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.

\*Advanced version with vibration monitor for installation in vehicles with fuel saving alternators.









9.5630.03	5DF 980 816-041		12 VOLT DC	
9.5636.03	5DF 980 816-061		12 VOLI DC	
9.5630.04	5DF 980 816-541		24 VOLT DC	
9.5636.04	5DF 980 816-561		24 VOLI DC	
To Suit	9.5630.03 Part No. 1009, 5619, 5630, 5631 9.5636.03 Part No. 5636 9.5630.04 Part No. 1009-24V, 5619-24V, 5630-24V, 5631 9.5636.04 Part No. 5636-24V		1-24V	

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING
IA Fuze

WIRING SPECIFICATIONS			
Connect to			
Ignition (+)			
Earth return (-)			
Front position or headlamps (+)			
Safety DayLights™ (+)			

#### Dual Function Safety DayLights™ Controllers

This Controller is designed to turn your HELLA Safety DayLights™ into front position lamps at night. The dual function controller is connected and activated by the headlamp of the vehicle.

The Dual Function Controller reduces the current to the Safety DayLights™ thus turning them into road legal\* front position lamps. Only one controller is required for a pair of HELLA Safety DayLights™.

\* Please note legally required spacing of front position lamps and only one pair of front position lamps is legally permitted.



#### HELLA COMPATIBILITY SOLUTION

HELLA HCS lamps, electronic control and flasher units are designed to the latest ISO International Standard to provide compatibility with commercial vehicle indicator failure systems.

Vehicles driven on public roads require the operation of direction indicator lamps to be monitored and a fault instantly signalled to the driver. Direction indicator lamps are an important road safety feature, signalling the direction change of the vehicle. Failure to signal or failure to recognise a direction indicator signal poses a significant risk of causing an accident.

LED direction indicator lamps offer a reliable Fit and Forget solution and have become the choice for cost conscious transport operators. LED lamps with their low power consumption and Multivolt features, are often a challenge for existing lamp failure detection systems on modern trucks and buses.

Transport fleets often feature a mix of trailers equipped with globe based lamps as well as trailers with full LED based lighting solutions. For the efficient operation of the fleet, each of these trailers should be compatible with the indicator failure detection systems of any of the trucks in the fleet, both now and in the future.

Some manufacturers recommend fitting additional resistive loads in parallel to the LED lamps, to simulate the 21 watts consumed by a traditional globe lamp.

Such pure resistive load solutions can be problematic for the following reasons:

- → They mask the possible failure of the actual LED signal lamp itself.
- → In many cases such pure resistive solutions do not function as they provide a linear time/current response which is significantly different to the time/current response of a globe filament when it heats up, as in the initial heat-up period the globes consume significantly more power than the rated 21 Watt.
- → Additional parallel resistors consume a significant amount of energy and thus negate the lower power advantage that LED lamps offer.
- → LED lamps marked with the HCS symbol feature patented indicator failure control technology which allows seamless communication with HELLA HCS control flasher units, or modern European trucks with body controllers compliant with the ISO 13207-1 standard.

#### International Organisation for Standardisation

The International Organisation for Standardisation (ISO) is a network of national standards bodies working together to develop International Standards. Currently ISO has members from 162 countries and 3,368 technical bodies working to a common goal of making international trade and industry more effective and efficient. The standards operate by global consensus, with many governments adopting the standards into their legislation.







#### ISO 13207-1 Standard

ISO 13207-1 specifies a precisely timed pulse for a low power LED lamp, which momentarily mimics the power consumption of a conventional incandescent globe. This pulse is suppressed when the LED direction indicator diagnoses itself as faulty. An ISO 13207-1 compatible flasher or vehicle body controller interprets the pulse suppression and alerts the driver to a faulty lamp or faulty wiring.

Body Control Modules or HCS flasher units together with LED lamps designed to ISO 13207-1 maintain the benefit of low power LED lamps, as opposed to a parallel resistor which increases the power consumption to that of a 21 watt globe.

HELLA Australia has been instrumental in laying the groundwork for the development of the HELLA Compatibility System (HCS), which became the blueprint for the ISO 13207-1 standard. HELLA HCS lamps are fully compliant with ISO 13207-1.

ISO 13207-1 has been agreed to by European truck manufacturers and will be incorporated into the vehicle monitoring electronics of European trucks.

Astute transport fleet operators are already future-proofing their trailers by specifying HELLA HCS Fit and Forget LED lighting solutions which will be plug-and-play with 24 volt European trucks.

# HELLA lamps which incorporate HCS readily comply with ISO 13207-1. I Globe Individual Pulse I LED T

The HCS innovation generates a pulse that simulates the current draw equivalent to an incandescent globe.

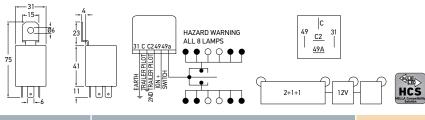
# HELLA HCS Lamps HELLA products throughout this catalogue displaying the HCS logo incorporate HELLA Compatibility Solutions technology. 2391 2391 2378-CS 2151-HCS 2146-HCS

A selection of HCS products.

#### HCS Electronic Flasher Unit 2+1+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/ LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



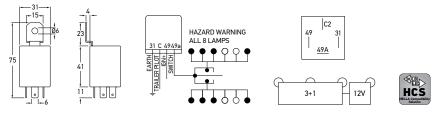


3036	4DN 009 492-102	12 VOLT DC	
Maximum Load	2+1+1(8) x HCS or 21W + 0-5W		
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.		
Protection IP 53 (Protection against dust and water spray)			
See page 276-277 for further information on HCS Technology			

#### HCS Electronic Flasher Unit 3+1

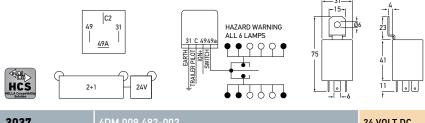
LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/ LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.





3039	4DW 009 492-112		
Maximum Load	3+1 (8) x HCS or 21W		
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.		
Protection	otection IP 53 (Protection against dust and water spray)		
See page 276-277 for further information on HCS Technology			

COMMON PIN DESIGNATIONS FOR FLASHER UNITS		
Terminal Number	Description	
49/X	Flasher input (+)	
49a/L	Flasher output (+) to lamps or indicator switch	
30b	Flasher input (+) from hazard switch	
31	Earth (-)	
C/C1/CP/P	Pilot lamp output (+)	
C2	1st trailer pilot lamp output (+)	
C3	2nd trailer pilot lamp output (+)	

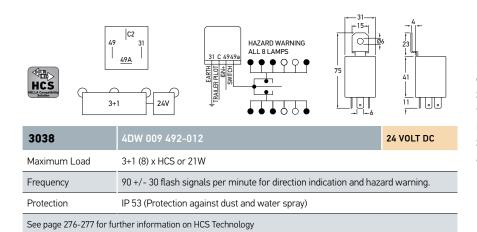


3037	4DM 009 492-002	24 VOLT DC	
Maximum Load	2+1 (6) x HCS or 21W + 0-5W		
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.		
Protection IP 53 (Protection against dust and water spray)			
See page 276-277 for further information on HCS Technology			

#### HCS Electronic Flasher Unit 2+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution)
LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.





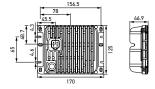
#### HCS Electronic Flasher Unit 3+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



#### **HCS Basic Control Unit** (12V and 24V)

HCS LED indicator outage monitoring unit with 21W bulb current simulation. For vehicles without flasher units that carry out current measurement for the failure check. In combination with trucks/ trailers fitted with HELLA HCS LED indicator lamps, the control unit simulates the time/current response of an incandescent bulb. Two variants suitable for vehicles operating with 12V or 24V.





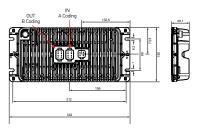
5DS 227 488-UU	J1	12 VOLI DC	
5DS 227 488-10	01	24 VOLT DC	
Operating Voltage	12V DC / 24V DC		
Connection	DT Type 6-Pin Socket (Indicator Circuit Input/Output)		
Note Control unit is responsible only for monitoring the direction indicators.			
See page 276-277 for further information on HCS Technology			



#### **HCS Premium Control Unit** (12V, 12V and 24V)

Similar to the basic version, but with additional features for the whole rear lighting: tail lights, stop lights, direction indicators, reversing lights, and rear fog light. Suitable for vehicles operating with 12V or 24V systems and 1 stop light channel or 12V systems and 2 stop light channels.





5DS 227 489-001 - 1 Stop Light Channel

5DS 227 489-011 - 2 Stop Light Channels



12 VOLT DC

12 VOLT DC

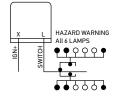
5DS 227 489-10	2-101 – 1 Stop Light Channel	
Operating Voltage	12V DC / 24V DC	
Connection	DT Type 6-Pin Socket (Indicator Circuit Input/Output) DT Type 8-Pin Socket, 'A-Coded' (Other Functions Input) DT Type 8-Pin Socket, 'B-Coded' (Other Functions Output)	
Note	Control unit is responsible for monitoring the whole rear lighting (tail lights, brake lights, direction indicators, reversing light and rear fog light).	

See page 276-277 for further information on HCS Technology

#### High Capacity Flasher Unit

2-Pin High-Capacity Flasher. Max. 6 lamps. Suitable for hazard warning applications.

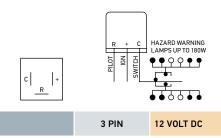






3008	4LZ 905 728-061	2 PIN	12 VOLT DC
Maximum Load	6 x 24W (32 cp)		

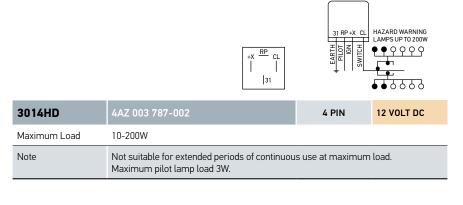
280



#### High Capacity Flasher Unit

Heavy-Duty Flasher Unit manufactured to take up to 180W loads.





3014

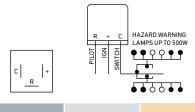
Maximum Load

180W

#### High Capacity Flasher Unit

4-Pin Heavy-Duty Electronic Flasher Unit designed to take up to 200W loads.





## 3015 4AZ 957 224-001 3 PIN 24 VOLT DC Maximum Load 500W 100W continuous Note Not suitable for extended periods of continuous use at maximum load. For pilot (warning) signal output from terminal "R" a minimum load of 2 x 21W + 5W = 47W

Maximum pilot lamp load 3W.

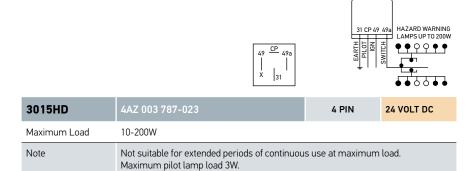
terminal "R" will not operate to indicate globe failure to the driver.

must be applied. With less than 47W load the pilot (warning) signal output from

#### High Capacity Flasher Unit

Heavy-Duty Flasher Unit manufactured to take up to 500W loads.





#### High Capacity Flasher Unit

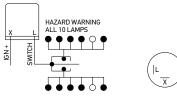
4-Pin Heavy-Duty Electronic Flasher Unit designed to take up to 200W loads.



#### High Capacity Flasher Unit

High Capacity Electronic Flasher Unit. Complete with bracket. Designed to take up to 210W loads. Reverse polarity protection, polycarbonate cover and silver contacts. Clear audible signal.



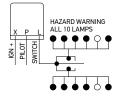


3026	4LZ 961 553-124	-	2 PIN	12 VOLT DC
Maximum Load	1-10 x 21W			

#### High Capacity Flasher Units

High Capacity Electronic Flasher Unit. Complete with bracket. Designed to take up to 210W loads. Reverse polarity protection, polycarbonate cover and silver contacts. Clear audible signal.





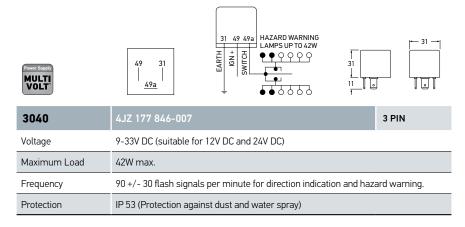
3027	4LZ 961 553-133	-	3 PIN	12 VOLT DC
3028	4LZ 961 553-233	-		24 VOLT DC
Maximum Load	1-10 x 21W			

#### **Universal Mounting Bracket**

For mounting 32mm diameter HELLA Flasher Unit Part No. 3026, 3027, 3028.



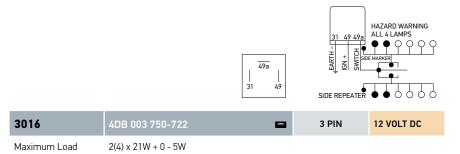
8003	8HG 002 156-001
0003	0110 002 130-001



#### Electronic Flasher Unit

LED Compatible Flasher Unit for universal connection of LED indicator lamps without electronic pulse. Maintains the standard flash rate of 90 +/- 30 fpm and operates on globe and LED loads from 1W to 42W.

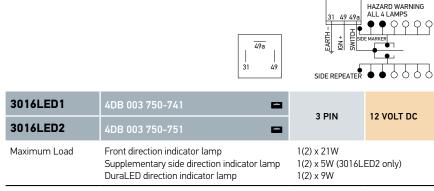




#### **Electronic Flasher Unit**

To operate 2 or 3 lamps on either side of vehicle. Incorporates hazard warning flasher system when used in conjunction with HELLA switch Part No. 5227.







#### LED Electronic Flasher Units

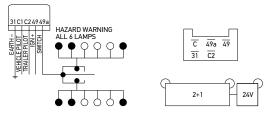
Modified version of Part No. 3016 Electronic Flasher Unit. Specifically designed for use with DuraLED® rear direction indicator lamps on motor vehicles such as prime movers, trucks and motor homes, maintaining the mandatory globe failure warning signal function.



#### Electronic Flasher Unit 2+1

Flasher Unit designed to operate 2 or 3 lamps on either side of a vehicle with caravan or trailer. Includes mounting bracket. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch Part No. 5227.



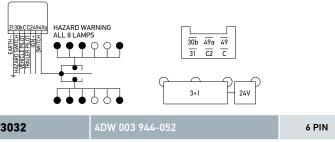


3018	4DM 003 474-002	5 PIN	24 VOLT DC
Maximum Load	2+1 (6) x 21W		

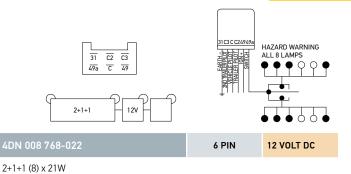
#### Electronic Flasher Unit 3+1

For heavy trucks with trailers. With mounting bracket. To operate 3 lamps on either side of towing vehicle, plus an additional lamp on either side of a trailer. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch Part No. 5227.





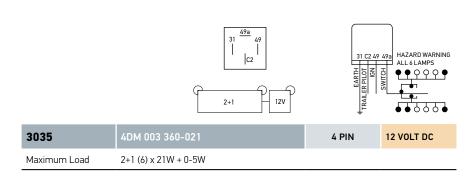
3032	4DW 003 944-052	6 PIN	24 VOLT DC
Maximum Load	3+1 (8) x 21W		



#### Electronic Flasher Unit 2+1+1

To operate 2 lamps on either side of a towing vehicle plus an additional lamp on either side of each of two trailers. Separate pilot lamps indicate operation of flasher lamps on the trailers.





3033

Maximum Load

#### Caravan/Trailer Conversion Flasher Unit 2 + 1

Designed to enable operation of 2 or 3 lamps simultaneously. Incorporates a specially designed mechanism which automatically compensates as the wattage load is varied.







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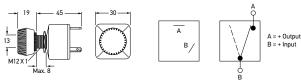
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#### Rotary Switch Off-On

Rotary Switch with round knob.



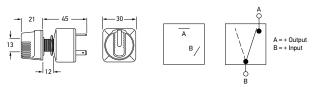


4020	6EB 905 341-001	OFF-ON
Mounting	12.5mm diameter opening	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

#### Rotary Switch Off-On

Rotary Switch with flat knob.



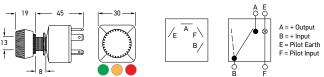


4021	6EB 905 341-011	OFF-ON
Mounting	12.5mm diameter opening	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

#### Illuminated Rotary Switch Off-On 12 Volt

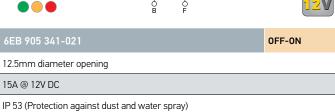
Illuminated by inbuilt 12V capillary globe, complete with red, amber and green lenses.





15A @ 12V DC

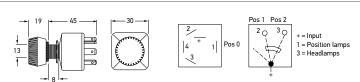
Suitable for 12V DC only. Globe not replaceable.



#### Rotary Headlamp Switch Off-On-On

Rotary Switch with round knob.

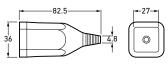




4023	6EB 904 341-031	OFF-ON-ON
Mounting	12.5mm diameter opening	
Maximum Load	23A @ 12V DC 11.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

#### **Rubber Sealing Boot**





4024	9GH 905 342-001	OFF-ON
To Suit	Part No. 4020-4023	

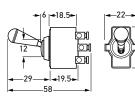
288

4022

Mounting

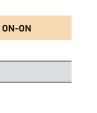
Protection

Maximum Load

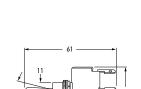




#### Changeover Switch On-On







13mm diameter opening

Up to 2mm thick

8A @ 12V DC 4A @ 24V DC

4150

Mounting

For Panels

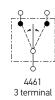
4452 To Suit

Maximum Load









Metal Shaft Toggle Switches



		at o terrimiat
4451	6EH 905 359-001	OFF-ON
4302	6FG 905 348-001	ON-OFF-ON
4461	6EH 905 362-001 – (Momentary Spring Return)	(0N)-0FF-(0N)
Mounting	12mm diameter opening	
For Panels	Up to 5mm thick	
Maximum Load	20A @ 12V DC 10A @ 24V DC	



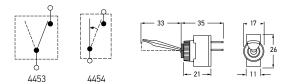
24	· —	
	all I	
	20	
	<b></b>	

To be used with	toggle switches.

Toggle Boot







4453	6EH 905 361-001	OFF-ON
4454	6EH 905 361-011 – (Momentary Spring Return)	OFF-(ON)
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	8A @ 12V DC	

Toggle switch 4302, 4451 and 4461

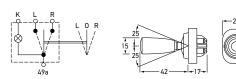
#### Plastic Toggle Switches



## Illuminated Toggle Switch On-Off-On

Three position latching switch for indicators. Illuminates green.



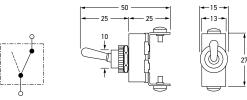


4206	6FG 905 347-001	ON-OFF-ON
Voltage	12V: globe to be ordered separately	
Mounting	19mm diameter opening	
For Panels	Up to 2mm thick	
Maximum Load	6A @ 12V DC	
Globes to Suit	12V 292 To be ordered separately	

#### Brass Toggle Switch Off-On

Chrome toggle and face nut. Brass construction.



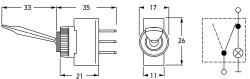


2762	6EG 905 310-001	OFF-ON
Mounting	11mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	20A @ 12V DC 10A @ 24V DC	
Togale hoot 4452 does not fit this switch		

#### Illuminated Toggle Switches Off-On 12 Volt









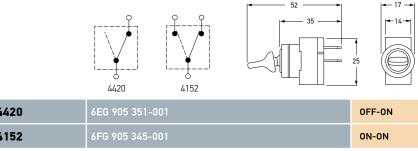
#### 4421 ■ RED 4422 ■ GREEN 4423 ■ BLUE 4424 AMBER Mounting 12.5mm diameter opening For Panels Up to 6mm thick Maximum Load 10A @ 12V DC

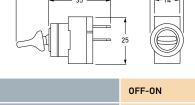
Suitable for 12V DC only. Globe not replaceable.

#### Illuminated Duckbill Switches Off-On 12 Volt









A
4152

**Duckbill Switches** 

	4420 4132	
4420	6EG 905 351-001	OFF-ON
4152	6FG 905 345-001	ON-ON
Mounting	12.5mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	10A @ 12V DC 5A @ 24V DC	



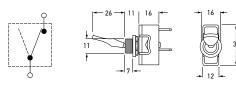
Single Switch Mounting Panel. Plastic moulded with black grain finish.





#### Toggle Switch Off-On



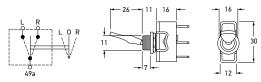


4456	6EH 905 361-021	OFF-ON
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	

#### Toggle Switch On-Off-On

Toggle switch, suitable for controlling direction indicator lamps.



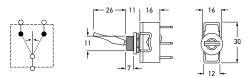


4202	6FG 905 346-001	ON-OFF-ON
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	

## Momentary Spring Return Switch (On)-Off-(On)

Momentary on-off-on, spring return aerial switch. Flick toggle with spring return to centre.





4460	6EH 905 361-031	(ON)-OFF-(ON)
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	

#### Headlamp Switch Off-On-On

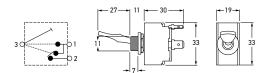
Three position switch:

Upper = Off

Centre = Position lamps

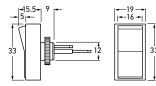
Lower = Headlamps and position lamps





4056	6FG 905 343-011	OFF-ON-ON
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	20A @ 12V DC 10A @ 24V DC	





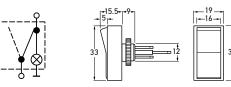
	33	
F-ON		

4439	6EH 905 356-001	OFF-ON
Mounting	12.5mm diameter opening	
For Panels	Up to 12mm thick	
Maximum Load	10A @ 12V DC 5A @ 24V DC	

#### Rocker Switch Off-On







Votage 12V	33	33
4440	6EH 905 356-011	■ RED
4441	6EH 905 356-021	■ GREEN
4442	6EH 905 356-031	- AMBER
4443	6EH 905 356-041	■ BLUE
Mounting	12.5mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	10A @ 12V DC	

#### **Illuminated Rocker Switches** Off-On 12 Volt

Push-on terminals.





Suitable for 12V DC only. Globe not replaceable.







Rocker Switches
Panal nuch fit



	4447	4444	4447
4444	6EH 905 357-001		OFF-ON
4447	6FH 905 357-031		ON-ON
Mounting	20mm diameter opening		
For Panels	Up to 4mm thick		
Maximum Load	10A @ 12V DC		

## Illuminated Rocker Switches Off-On 12 Volt

Panel push fit.



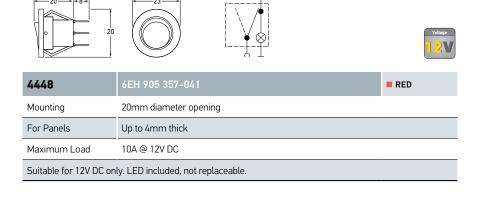


20 20		Vottage 1 2V
4445	6EH 905 357-011	- AMBER
4446	6EH 905 357-021	■ RED
Mounting	20mm diameter opening	
For Panels	Up to 4mm thick	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC on	ly. Globe not replaceable.	

#### LED Rocker Switch Off-On 12 Volt DC

Panel push fit.



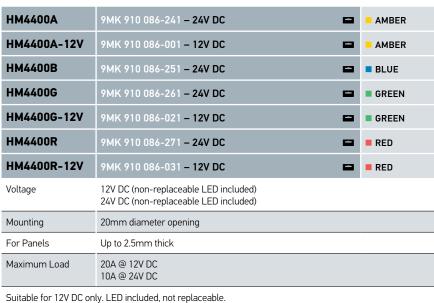


## Illuminated Compact LED Rocker Switches Off-On

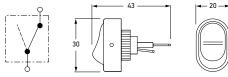
Compact, heavy-duty LED illuminated Rocker Switches featuring durable nylon frame and waterproof rubber sealing boot for additional protection in industrial environments. Push-on terminals.





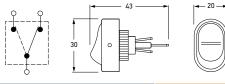


#### Rocker Switch Off-On



4470	6EH 905 363-001 OFF-ON			
Mounting	12mm diameter opening			
For Panels	Up to 5mm thick			
Maximum Load	10A @ 12V DC			

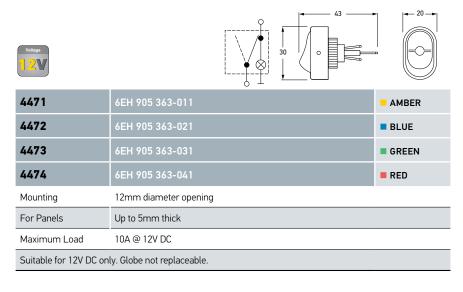




4475	6FH 905 363-051	ON-ON
Mounting	12mm diameter opening	
For Panels	Up to 5mm thick	
Maximum Load	10A @ 12V DC	

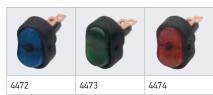
#### Rocker Switch On-On





## Illuminated Rocker Switches Off-On 12 Volt

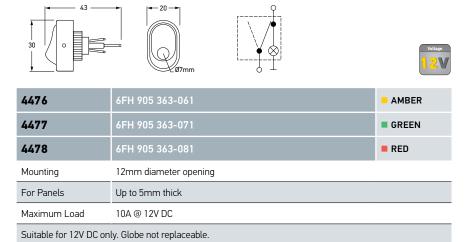




## Illuminated Rocker Switches Off-On 12 Volt



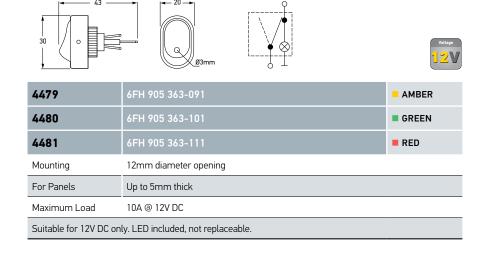




## LED Rocker Switches Off-On 12 Volt DC



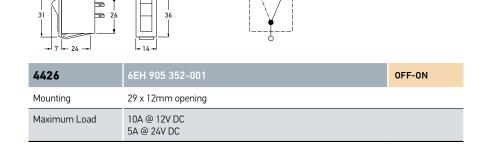




#### Rocker Switch Off-On

Panel push fit.

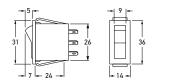




#### Rocker Switch On-On

Panel push fit.



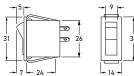




4151	6FH 004 406-053	ON-ON
Mounting	29 x 12mm opening	
Maximum Load	10A @ 12V DC 5A @ 24V DC	









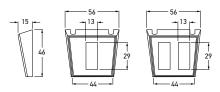
4427	6EH 905 352-011	■ RED		
4428	6EH 905 352-021	■ GREEN		
4429	6EH 905 352-031	■ BLUE		
4430	6EH 905 352-041	AMBER		
Mounting	29 x 12mm opening			
Maximum Load	10A @ 12V DC			
Suitable for 12V DC only. Globe not replaceable.				

#### **Illuminated Rocker Switches** Off-On 12 Volt

Panel push fit.





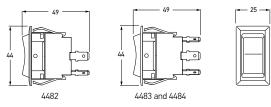


4431	8HG 905 353-001	SINGLE
4432	8HG 905 353-011	DOUBLE
To Suit	Rocker switches: 4426, 4427, 4428, 4429, 4430 and 4151	

#### Rocker Switch Mounting Panels

Plastic moulded with black grain finish.





4482	6FH 905 364-001	OFF-ON
4483	6FH 905 364-011	ON-OFF-ON
4484	6GH 905 364-021 – (Momentary spring return)	(ON)-OFF-(ON)
Mounting	20 x 36mm opening	
For Panels	Up to 4mm thick	
Maximum Load	25A @ 12V DC 12.5A @ 24V DC	



#### **Heavy Duty Rocker Switches**

Extremely robust Rocker Switch featuring push-on terminals and weather resistant black plastic housing. Panel push fit.











#### **HELLA Universal Rocker Switches**

HELLA universal flush-fit rocker switches are readily adaptable to 12V and 24V applications. This large and varied range covers nearly all switching types and connections. A wide selection of symbols ensures proper labelling of all main switching and monitoring functions. The switching and control displays can be illuminated.

Mounting	Mounted directly to properly dimensioned opening (1 - 2.5mm thick) or by mounting panels (for more information see page 344).
Maximum Load	16A @ 12V, 8A @ 24V.

Connectors, symbols, mounts and globe holders are to be purchased separately.

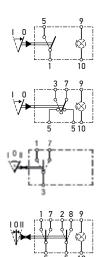




 $Location\ lamp\ illuminates\ lamp\ with\ park\ lights.\ Pilot\ lamp\ illuminates\ when\ switch\ is\ in\ the\ 'on'\ position.$ 

1 0 1	%   
0 0	9 —(\$) 10
	9 —(\$) 10

ON-OFF SWITCHES				
	Symbol	Description	Function	
6EH 007 832-011	LOCATION	Suitable for use with location light		
6EH 007 832-021	PILOT	Suitable for use with location and pilot light	ON-OFF	
	LOCATION			
6EH 007 832-041	PILOT	With mechanism for blocking operation. Suitable for use with location light and pilot light		
	LOCATION			



MOMENTARY SPRING RETURN SWITCHES				
6GM 007 832-191	LOCATION	Suitable for use with location light	OFF-(ON)	
6GM 007 832-221	LOCATION	Suitable for use with location light	CHANGE-OVER	
6GM 007 832-231		Without location light, without pilot light	CHANGE-OVER	
6GM 007 832-251	LOCATION	Suitable for use with location light	(ON)-0FF-(ON)	

298

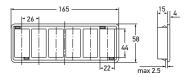
OLIANIOE OVED SIMITOL	IFC.		
CHANGE-OVER SWITCH	Symbol	Description	Function
6FH 007 832-051		Without location light, without pilot light	
6FH 007 832-061	LOCATION	Suitable for use with location light	ON-ON
6FH 007 832-101	PILOT	Suitable for use with location light	_
OF 11 007 032-101	LOCATION	and pilot light	
6FH 007 832-131		Without location light, without pilot light	ON-OFF-ON
6FH 007 832-161		Without location light, without pilot light	ON-OFF-ON
/DU 007 022 254	PILOT	Suitable for use with location light	
6RH 007 832-351	LOCATION	and pilot light	
6RH 007 832-377	PILOT	Suitable for use with location light	
	LOCATION	and pilot light	- OFF-ON-ON
6RH 007 832-381		Without location light, without pilot light	
6RH 007 832-391	LOCATION	Max. load 16A @ 12V, 8A @ 24V. Suitable for use with location light, without pilot light	
6RH 007 832-441	LOCATION	Suitable for use with location light	
6RH 007 832-461	LOCATION	Suitable for use with location light	
6RH 007 832-411	LOCATION	Suitable for use with location light.	OFF-ON- MOMENTARY ON
6HH 007 832-281	PILOT	Max. load 10A @ 12V and 24V. Without location light. Includes pre-fitted 12V globe. Hazard flasher switch.	IIA7ADS
6HH 007 832-301	PILOT	With location light and pilot light. Includes pre-fitted 24V globe.	- HAZARD
51111 007 032-301	LOCATION	Hazard flasher switch.	





See page 302 for the range of coloured symbols.

#### Mounting Panels for Universal **Rocker Switches**





8HG 713 626-001 (156.1 x 48.2mm) - Mounting Panels	SIX SWITCHES
8HG 714 504-001 (77.6 x 48.2mm) - Mounting Panels	THREE SWITCHES

#### Modular Mounting Panel System for **Universal Rocker Switches**





8HG 716 734-001 – Modular Mounting Panel System	END PIECE
8HG 716 735-001 - Modular Mounting Panel System	MIDDLE PIECE
Two and pieces are required to make a mounting panel	

By adding middle pieces, this panel can be extended as required.

#### Blanking Plug for Universal **Rocker Switches**



9HB 713 629-001 - Blanking Plug for Empty Switch Apertures

300

## Warning Lights for Universal Rocker Switches





2AA 713 628-	<b>021</b> – Warning	ı Lights	12 VOLT
2AA 713 628-031 – Warning Lights			24 VOLT
2AA 713 628-041 – LED Warning Lights		12/24 VOLT DC	
Globes to Suit	12V 24V	W121.2 W241.2	









9FF 713 627-	<b>001</b> – Warning	Lights	12 VOLT
9FF 713 627-	011 – Warning	Lights	24 VOLT
9FF 713 627-	<b>031</b> – LED War	ning Lights	12/24 VOLT DC
Globes to Suit	12V 24V	W121.2 W241.2	

## Warning Lights for Universal Rocker Switches





## Connectors for Universal Rocker Switches

8JA 713 631-001 – Connectors for switch 8 POLE		
8JA 715 600-001 – Connectors for globe holder		2 POLE
8573	8KW 905 512-031 - Connectors - Pack of 100	BRASS TERMINALS

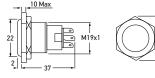




Symbol Cards for HELLA Universal Rocker Switches 007 832					
	Symbol	Symbol Card		Symbol	Symbol Card
9XT 713 630-001	Green	Without symbol	9XT 714 300-201	= +	Battery
9XT 713 630-011	Black	Without symbol	9XT 714 300-191	~ <del>*</del> ~	Temperature
9XT 713 630-021	Red	Without symbol	9XT 713 630-181	4	Window lift
9XT 713 630-031	Yellow	Without symbol	9XT 713 630-101	$\nabla$	Windscreen
9XT 713 630-301	∌D	Light	9XT 713 630-121	\$	Window wiper/wash
9XT 714 300-131	≣D	Main beam	9XT 713 630-131	<b>(1)</b>	Windscreen wash
9XT 713 630-351	\$0	Fog lamp	9XT 713 630-231	<b>I</b>	Heated rear window
9XT 713 630-421	<b>₽</b>	Work lamp front	9XT 713 630-481	4	Heated outside mirror
9XT 713 630-701	Q≢	Work lamp rear	9XT 713 630-521	<b>©</b> <sup>€</sup>	Defroster
9XT 714 300-141	<b>\$\$</b>	Flasher lamp	9XT 713 630-461		Air horn
9XT 713 630-391		Warning lamp	9XT 713 630-291	<b>₹</b>	Fresh air
9XT 713 630-511	后	Map lamp	9XT 713 630-681	*	Roof fan
9XT 713 630-491	恋	Driving compartment lighting	9XT 713 630-201	000	Heater
9XT 713 630-641	φ'.□	Boot lighting	9XT 713 630-221	<b>%</b>	Heater fan
9XT 713 630-261	-\\\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Main light	9XT 713 630-401	\$	Fast
9XT 713 630-371	jii.	Work light	9XT 713 630-691	<b>1999</b>	Slow
9XT 713 630-281	Ĭ	Rotating beacon	9XT 713 630-551	₽	Front door
9XT 713 630-711	Ĭ	Rotating beacon	9XT 713 630-561	2 ▶	Rear door
9XT 714 300-181	میک.	Lubrication	9XT 713 630-621		Lower
9XT 714 300-011	(P)	Parking brake	9XT 714 300-051		Change-over tanks
Interior Lighting			Fan		
9XT 713 630-271	が	High	9XT 713 630-251		Fast
9XT 714 300-031 9XT 713 630-501	XXXX	Medium Low	9XT 713 630-531	***	Slow







8HG 958 455-00	1 – 12 Volt DC	■ RED
8HG 958 455-01	■ BLUE	
8HG 958 455-10	■ RED	
8HG 958 455-11	■ BLUE	
Mounting	19mm diameter opening	
Maximum Load	5A	
Protection	IP 67 (Protection against dust and temporary water immersion). From front when mounted.	

Up to 10mm thick.

## Stainless Steel Latching Switches with LED Ring Off-On

Durable, 304 Stainless Steel Switches featuring a ring of LED light. These through panel mount switches are ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation.

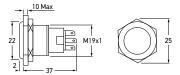






For Panels





8HG 958 455-201 – 12 Volt DC	■ RED
8HG 958 455-211 - 12 Volt DC	■ BLUE
8HG 958 455-301 – 24 Volt DC	■ RED
8HG 958 455-311 – 24 Volt DC	■ BLUE

8HG 958 455-3	I I – 24 Volt DC	■ BLUE
Mounting	19mm diameter opening	
Maximum Load	5A	
Protection	IP 67 (Protection against dust and temporary water immersion). From front when mounted.	
For Panels	Up to 10mm thick	

#### Stainless Steel Momentary Switches with LED Ring Off-(On)

Durable, 304 Stainless Steel Switches featuring a ring of LED light. These through panel mount switches are ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation.









8HG 958 456-00	1 – 12 Volt DC	■ RED
8HG 958 456-10	1 – 24 Volt DC	■ RED
Mounting	19mm diameter opening	
Sound Level	>80dB (1m)	
Protection	IP 50 (Protection against dust)	
For Panels	Up to 10mm thick	

## Stainless Steel Buzzers with LED Ring

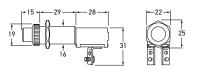
Durable, 304 Stainless Steel Warning Buzzer to match stainless steel switches. Also features a ring of LED light.



#### Momentary Spring Return Push **Button Starter Switch Off-(0n)**

Brass construction. Chrome plated face nut and button. Off-momentary on push button (spring return).





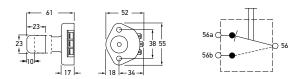


2763	6JF 905 311-001	OFF-(ON)
Mounting	16mm diameter opening	
For Panels	Up to 25mm thick	
Maximum Load	20A @ 12V DC 10A @ 24V DC	

#### Foot Operated Dipper Switch

Push on terminals. Latching spring return mechanism.



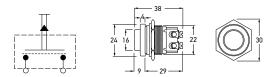


4100	6EJ 905 344-001	ON-ON
Mounting	Surface mount	
Maximum Load	12A @ 12V DC 6A @ 24V DC	

#### Momentary Spring Return Push Button Switch Off-(On)

Off-momentary on push button (spring return) switch.





4501	6JF 001 571-002	OFF-(ON)
Mounting	22.5mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	16A @ 12V DC 8A @ 24V DC	

info.au@hella.com







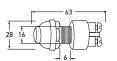
4503	6JF 001 571-003	OFF-(ON)		
Mounting 22.5mm diameter opening				
For Panels Up to 2mm thick				
Maximum Load 16A @ 12V DC 8A @ 24V DC				
Do not remove rubber cap/front face nut when fitting.				

## Momentary Spring Return Push Button Switch Off-(On)

Water resistant push button type switch with rubber cap. Off-momentary on push button (spring return).





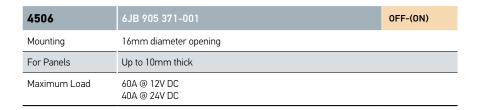




## Momentary Spring Return Push Button Switch Off-(On)

Water resistant starter switch.

Off-momentary on push button (spring return).

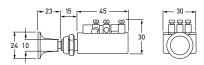




#### Headlamp Switch Off-On-On

Three position headlamp switch without pilot lamp. Features black grip and 20 amp glass fuse.



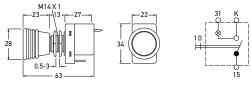


4055	6RD 905 343-001	OFF-ON-ON
Mounting	11mm diameter opening	
For Panels	Up to 10mm thick	
Maximum Load	10A @ 12V DC 5A @ 24V DC	

#### Illuminated Switches Off-On

Knob incorporates red or green pilot lamp.

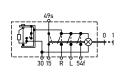


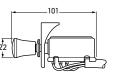


4411	6ED 004 778-023			■ GREEN
4412	6ED 004 778-013			■ RED
Mounting	14mm diameter openin	ıg		
For Panels	Up to 6mm thick			
Maximum Load	10A @ 12V DC 5A @ 24V DC			
Globes to Suit	12V DC 24V DC		Globe to be ordered separately. Globe to be ordered separately.	









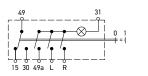


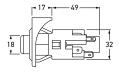
5225	6HD 002 535-032	12V DC
Mounting	12mm diameter opening	
Voltage	12V DC (Globe included)	
For Panels	Up to 7mm thick	
Globes to Suit	12V DC W121.2 24V DC W243	
Note	Not suitable for extended periods of continuous use	

#### **Hazard Warning Switch**

Operates all the flasher lamps of a 12V DC or 24V DC vehicle (and trailer) simultaneously. Red knob with pilot lamp. Complete with cables, terminals and wiring instructions for easy installation.









5227	6HF 001 579-05	1		OFF-ON
Mounting	29mm diameter op	pening		
Maximum Load	7A @12V DC			
For Panels	Up to 3mm thick			
Globes to Suit	12V DC 24V DC		Globe to be ordered separately. Globe to be ordered separately.	

#### **Hazard Warning Switch**

For cars, trucks, buses with and without trailers. Black plastic mounting panel. Red knob with pilot lamp. Includes 8 pole multiple adaptor. Push-on 6mm terminals supplied. Wiring diagram and instructions are included.

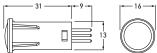


#### Pilot Lamps 12 Volt

Panel push fit Pilot Lamp with non-replaceable globe.







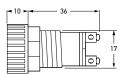
		GLOBE INC		
2708	2AA 905 300-001	■ RED		
2709	2AA 905 300-011	■ GREEN		
2710	2AA 905 300-021	■ BLUE		
2711	2AA 905 300-031	- AMBER		
Mounting 12.5mm diameter opening				
Voltage 12V DC				
Suitable for 12V DC only. Globe not replaceable.				

#### Pilot Lamps 12 Volt

Pilot Lamp utilising bayonet based globe for use under heavy duty conditions.











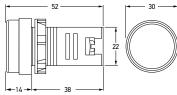
#### LED Pilot Lamps 12/24V AC/DC

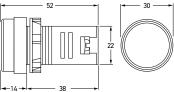
Heavy duty multi-chip LED Pilot Lamp featuring shock-resistant one-piece construction for long service life and polycarbonate lens.















2716	2AA 910 233-041 <b>– 12V AC/DC</b>	■ RED
2716-24V	2AA 910 233-101 <b>– 24V AC/DC</b>	■ KED
2717	2AA 910 233-031 <b>– 12V AC/DC</b>	GREEN
2717-24V	2AA 910 233-091 <b>– 24V AC/DC</b>	GREEN
2718	2AA 910 233-011 <b>– 12V AC/DC</b>	AMBER
2718-24V	2AA 910 233-061 <b>– 24V AC/DC</b>	AMBER
2719	2AA 910 233-051 <b>– 12V AC/DC</b>	WHITE
2719-24V	2AA 910 233-111 <b>– 24V AC/DC</b>	WHILE
2720	2AA 910 233-021 <b>– 12V AC/DC</b>	■ BLUE
2720-24V	2AA 910 233-071 <b>– 24V AC/DC</b>	BLUE
Mounting	22mm diameter opening	
For Panels	Up to 38mm thick	
Voltage	12V or 24V AC/DC	
Protection	IP 65 (Protection against dust and water jets) when installed	





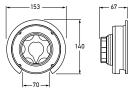
OFF-

#### Heavy Battery Master Switch

Enables switching between battery 1 and 2 or linking up of both batteries for extra power. May also be used as a manual isolator for charging batteries.



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## Dual Battery Master Switch - Weatherproof

For 6-36V DC battery systems with alternators or generators. Water and vapour resistant.



2767	6EB 950 870-001	0FF-1-2-B0TH
Mounting	Surface mount. or 84mm diameter opening	
Maximum Load	500A at 12V DC for 10 seconds 250A at 24V DC for 10 seconds 310A at 12V DC continuous 155A at 24V DC continuous	
Function	4-position switch (off-1-2-both)	
For Panels	Up to 25mm thick.	

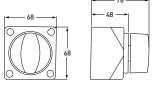
175A @12V DC Continuous

87.5A @ 24V DC Continuous
4-position switch (off-1-2-both)

2765

Function

Maximum Load



4640	9SL 998 540-002	2	OFF-ON
Mounting	Recess or surface i	mount	
Maximum Load	12/24V DC	1250A for up to 10 seconds	
Maximum Continuous Load	12/24V DC	275A	
Termination	2 x 10mm studs		
Protection	IP 56		
Spare Part	4641	Spare key	

#### **Battery Master Switch**

Suitable for cars and medium sized trucks. Complete with removable key.



#### **Battery Master Switch**

Suitable for cars and medium sized trucks. Complete with removable key.





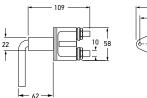


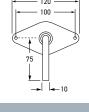
4650	6EK 002 843-057	-	OFF-ON	
Mounting	24mm diameter op	ening		
Maximum Load	12V DC 24V DC	1000A for up to 10 seconds 500A for up to 10 seconds		
Maximum Continuous Load	12/24V - 50A at a maximum ambient temperature of 80°C with 35mm² lead, connected with ring-type terminals.			
Termination	Termination 2 x 10mm studs.			
Protection	IP X4 (Protection against water splashing)			
Spare Part	4652	Spare key		
Switch not designed for Marine applications.				

#### Heavy Duty Battery Master Switch

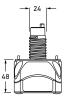
For trucks, buses and earth moving equipment. Complete with removable key.







4653	6EK 001 559-002 OFF-0N		OFF-ON	
Mounting	22mm diameter op	22mm diameter opening		
Maximum Load	12V DC 24V DC	5000A for 10 seconds. 2500A for 10 seconds		
Maximum Continuous Load	12/24V DC	100A continuous at a maximum ambient ten 60°C with 50mm² lead connected with ring-t	•	
Termination	2 x 10mm studs			
Protection	IP X4 (Protection against water splashing)			
Spare Part	4654	Spare key		
Switch not designed for Marine applications.				

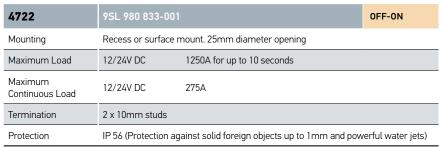






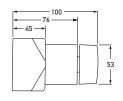
#### **Battery Master Switch**

Battery Master Switch with threaded collar. Suitable for cars and medium sized trucks. Complete with removable key, labelled handle and removable back cover.







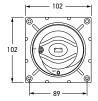


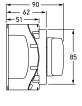
4724	6EN 980 835-001		OFF-ON
Mounting	Recess or surface r	Recess or surface mount. 55mm diameter opening	
Voltage	12/24V DC	12/24V DC	
Power Consumption	2W @ 12V DC when operating, 0.25W static		
Maximum Load	12/24V DC	1250A for up to 10 seconds	
Maximum Continuous Load	12/24V DC	275A	
Termination	2 x 10mm studs		
Cable Length	500mm		

#### Remote Operated Battery Master Switch

Battery switch with tin-plated copper studs and nuts. Can be operated manually or remotely with a separate switch (not supplied). Suitable for mounting alongside battery reducing cable lengths to starter motor. Complete with removable key and 3 way DTM plug.







	89 ─────		
4720	6EK 998 540-062		OFF-ON
Mounting	Recess or surface mount. 85mm diameter opening		
Maximum Load	12/24V DC	2500A for up to 10 seconds	
Maximum Continuous Load	12/24V DC	600A	
Termination	2 x 12mm studs		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		

#### **Heavy Duty Battery Master Switch**

For commercial use. Features sliding contact for self cleaning.

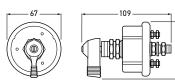


#### **Battery Master Switches**

Double-pole, 2-position (off-on) Battery Master Switch with plated steel case designed to disconnect both battery and field circuit. Actuated by chrome-plated die-cast lever. Part No. 4643 features silver laminated contacts.





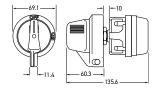


4642	6EK 905 424-001		
4643	6EK 905 424-011	■ SILVER CONTACTS	
Mounting	19mm diameter opening		
Maximum Load	1000A at 6-36V DC intermittent		
Maximum Continuous Load	125A at 6-36V DC continuous (large studs) 20A continuous (small studs)		
For Panels	Up to 4.75mm thick		
Spare Part	4645 Key <b>①</b>		
Accessories	4646 Face Plate ②		

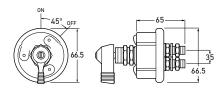
## Battery Master Lockout Switches - 2 Pole

Heavy duty 2-pole lockable battery lockout switch. The battery lockout switch provides a reliable power disconnection and safety cut-off that protects the vehicle against tampering, theft and battery drain. It also protects service personnel from electrical hazards during service operations.





НМ7592В	9MK 910 109-001 ■ RED HANDLE		
HM7592Y	9MK 910 109-011 YELLOW HANDL		
Mounting	Sealed design allows switch to be mounted in the best location regardless of environment		
Operating Temp.	-40°C to +85°C		
Maximum Continuous Load	300A at 12V DC continuous 250A at 24V DC continuous		
Protection	Waterproof and dustproof to IP67.		

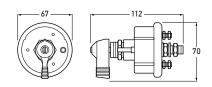


HM7591S	9MK 910 109-201	
Mounting	19mm diameter opening	
Operating Temp.	-40°C to +29°C	
Maximum Load	125A at 6-36V DC continuous	
Protection	Waterproof and dustproof to IP67	

## Battery Master Lockout Switch - 4 Pole

Heavy duty 4-pole lockable battery lockout switch. The battery lockout switch provides a reliable power disconnection and safety cut-off that protects the vehicle against tampering, theft and battery drain. It also protects service personnel from electrical hazards during service operations. Isolates of both positive and negative sides from the battery, or isolation of two circuits with only one switch.





4644	6EK 905 424-021	■ SILVER CONTACTS	
Mounting	19mm diameter opening		
Maximum Load	1000A at 6-36V DC intermittent		
Maximum Continuous Load	125A at 6-36V DC continuous (large studs) 20A continuous (small studs)		
For Panels	Up to 6.75mm thick		
Spare Part	4645 Key ①		
Accessories	4646 Face Plate ②		

## Battery Master Switch - Silver Contacts - Weatherproof

Weatherproof double-pole, 2-position (off-on) Battery Master Switch featuring plated steel case, silver laminated contacts and 0-ring seal to protect from dirt and moisture. Also features index pin to align unit and prevent rotation.



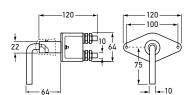


#### **Heavy Duty Battery Master Switch**

Extremely robust, single-pole (2 post) Battery Master Switch featuring double-cut copper contacts. Supplied complete with removable handle, security chain and PVC protective cover. Suitable for industrial vehicles and agricultural machinery.





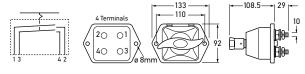


4655	6EK 905 397-001		
Mounting	24mm diameter openi	24mm diameter opening	
Maximum Load	2500A at 12-24V DC for 5 seconds		
Maximum Continuous Load	250A at 12-24V DC continuous		
Protection	IP 66		
Spare Parts	4655COV 4655KEY	Strap & PVC Protective Cover  Handle, Chain & Protective Cover	

#### **Heavy Duty Battery Master Switch**

Extremely robust, double-pole (4 post) Battery Master Switch featuring corrosion-resistant zinc-plated housing and double-cut copper contacts. Suitable for industrial and agricultural vehicles.



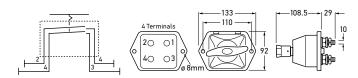


4657	6EK 905 249-001	
Mounting	82mm x 77mm opening Mounting hole diameter 8mm	
Maximum Load	2500A at 12-24V DC for 5 seconds	
Maximum Continuous Load	250A at 12-24V DC continuous	
Termination	2 x 12mm studs	
Protection	IP 65	

## Heavy Duty Battery Master Switch - Weatherproof

Extremely robust, double-pole (4 post) Battery Master Switch with corrosion-resistant zinc-plated housing and double-cut copper contacts. Specifically designed for marine applications featuring additional white surface protection coating for extended durability.





2769	6EK 905 250-001	
Mounting	82mm x 77mm opening Mounting hole diameter 8mm	
Maximum Load	2500A at 12-24V DC for 5 seconds	
Maximum Continuous Load	250A at 12-24V DC continuous	
Termination	2 x 12mm studs	
Protection	IP 65	



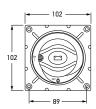


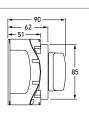
#### **Battery Selector Switch**

Battery Switch to select either from two power sources or combine together. It will also isolate from the power sources.

4723	9SL 980 834-0	9SL 980 834-001	
Mounting	Recess or Surface	Recess or Surface Mount	
Maximum Load	12/24V DC	12/24V DC 1000A for up to 10 seconds	
Maximum Continuous Load	12/24V DC	200A	
Termination	3 x 5/16" studs		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		







#### **Battery Selector Switch**

Battery Switch to select either from two power sources or combine together. It will also isolate from the power sources.

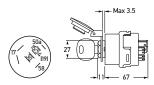
4721	6EB 998 540-202		OFF-B1-B0TH-B2
Mounting	Recess or Surface Mount. 85mm diameter opening		
Maximum Load	12/24V DC	1500A for 10 seconds	
Maximum Continuous Load	12/24V DC	350A	
Termination	3 x 10mm studs.		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		
Switch can be locked using 6mm diameter padlock with 75mm reach.			



#### Diesel Pre-Heating Starter Switch

Pre-Heating Starter Switch supplied with two keys. Key removes in park and off.









15/54 = Ignition 17 = Start 19 = Preheat 58 = Park/Side Lamp 50a = Starter Control 30 = + Input

4005	6JB 003 959-002	
Mounting	26.5mm diameter opening	
For Panels	Jp to 3.5mm thick	
Function	5 position switch (park, off, driving, pre-heat, start)	

TERMINAL	POSITION	FUNCTION	CURRENT @ 24V
30-58	Р	Park Lamps	4A
30-15/54	1	Driving	18A
30-19	2	Preheat	35A
30-50a/17	3	Start	5A/35A

#### Ignition and Starter Switch

Switch with spring loaded return. Supplied with two keys.



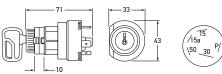


4008	6JB 950 505-001
Mounting	19mm diameter opening
For Panels	Up to 19mm thick
Maximum Load	@12V ignition 25A, start 12A, accessory 15A
Spare Part	Blank key number Silica BH4
Function	Four position switch (accessory, off, ignition, start)

## Heavy Duty Ignition and Starter Switch

Heavy Duty Ignition and Starter Switch, featuring plastic outer construction for maximum protection against damage. Supplied with two keys.

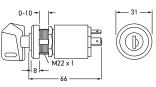




4008HD	6JK 905 339-001
Mounting	19mm diameter opening.
For Panels	Up to 10mm thick
Maximum Load	@12V park 2A, ignition 20A, start 25A., accessory 30A
Function	Four position switch (park, off, ignition, start). Key removes in park and off







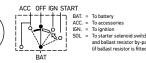
#### Ignition and Starter Switches

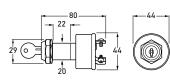
Two keys supplied. Start-lockout mechanism to prevent accidental engagement of starter.



4009	6JK 950 838-001		22MM SHAFT
4010	6JK 905 340-001		18MM SHAFT
Mounting	4009 4010	22.5mm diameter opening 18.5mm diameter opening	
For Panels	Up to 19mm thick		
Maximum Load	@12V ignition 25A, start 50A, accessory 20A		
Function	Four position switc	h (accessory, off, ignition, start)	

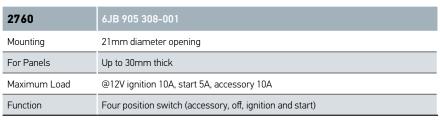




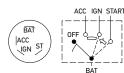


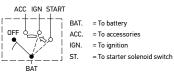
## Ignition and Starter Switch

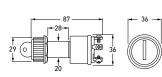
Switch with spring-loaded return. 4 screw terminals and satin finish. Corrosion-resistant brass construction.











2766	6JB 905 313-001
Mounting	21mm diameter opening
For Panels	Up to 25mm thick
Maximum Load	@12V ignition 10A, start 5A, accessory 10A
Function	Four position switch (accessory, off, ignition and start)

#### Ignition and Starter Switch

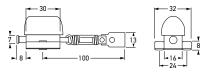
Four position switch with spring loaded return. Four screw terminals.



#### Stop Lamp Switch Off-On

Normally open, contacts are closed when tension is applied to the spring. Complete with splash proof rubber cap. Brake linkage clamp 6mm diameter.



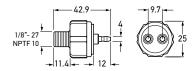


4560	6DD 905 374-001	OFF-ON
Maximum Load	10A @ 12V DC 5A @ 24V DC	

#### Stop Lamp Switch Hydraulic

1/8" x 27 NPT thread.



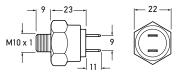


4566	6DL 905 375-011	HYDRAULIC
Maximum Load	9A @ 12V DC 4.5A @ 24V DC	
Replaces	Original No. 1997725, No. LC6870, No. P7715	
Suits	GMH, Ford, Chrysler, and Dodge	
Actuating Pressure	3.7-8.2 Bar	
Note	Only suitable for use with brake fluid (not silicone based)	

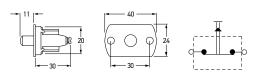
#### Stop Lamp Switch Hydraulic

M 10 x 1 thread.





4567	6DL 905 375-021	HYDRAULIC
Maximum Load	9A @ 12V DC 4.5A @ 24V DC	
Replaces	Original No. 113 945 515C	
Suits	Volkswagen to 1970	
Actuating Pressure	3-6 Bar	
Note	Only suitable for use with brake fluid (not silicone based)	

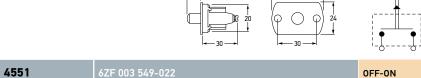


4550	6ZF 003 549-003	ON-OFF
Mounting	21mm diameter opening.	
Maximum Load	2A @ 12V DC 1A @ 24V DC	

#### Door Contact Switch On-Off

Switch closes circuit if door is opened.





2A @ 12V DC 1A @ 24V DC

Mounting

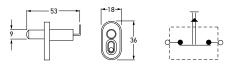
Maximum Load

## 21mm diameter opening.

#### Door Contact Switch Off-On

Switch opens circuit if door is opened. May be used as safety cut-off switch.





4553	6ZF 905 373-001	ON-OFF	
Mounting	12mm diameter opening and screw		
Maximum Load	3.5A @ 12V DC		
Plunger automatically adjusts to door gap on initial operation			

#### Door Contact Switch On-Off

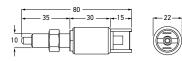
Switch closes circuit if door is opened. Corrosion proof black plastic. Rubber seal. Push-on terminal.



#### Stop Lamp Switch On-Off

Thread M10 x 1.25. Suits early Japanese vehicles.



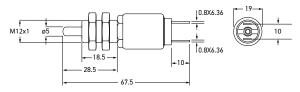


4562	6DF 007 365-001	ON-OFF
Maximum Load	10A @ 12V DC	

#### Stop Lamp Switch Mechanical

M 12 x 1 thread.



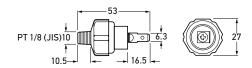


4570	6EZ 905 376-021	ON-OFF
Maximum Load	5A @ 12V DC 2.5A @ 24V DC	
Replaces	Original No. 7438915	

#### Oil Pressure Switch

1/8" x 28 BSP thread.





4571	6ZL 905 376-031
Actuating Pressure	0.14 - 0.48 Bar

#### Oil Pressure Switch

1/4" x 18 NPTF thread.



4574	6ZL 905 376-041
Actuating Pressure	0.14 - 0.48 Bar

#### Wideband Oxygen Sensor

M18x1.5 thread, terminated with 6-Pole industry standard plug. Suits use with aftermarket monitoring systems and gauges. Also suits VW, Audi and other vehicle applications from 2006 onwards using a wideband sensor.

6PA 009 166-79	1 – Wideband Oxygen Sensor	800 MM CABLE
6PA 009 166-82	1 – Wideband Oxygen Sensor	1500 MM CABLE
Mounting	Standard M18x1.5 Exhaust Fitting	
Connection	Cable length as noted, terminated with standard 6-pole connection	n plug
0E Number	03G 906 262 H (800mm Cable), 022 906 262 H (1500mm cable)	







Exposed probe Shrouded probe

6PT 014 494-041	l – Exhaust Gas Temperature Sensor	EXPOSED PROBE
6PT 010 376-111	- Exhaust Gas Temperature Sensor	SHROUDED PROBE
Mounting	Standard M14x1.5 Exhaust Fitting	
OE Number	03L 906 088 AJ (Exposed Sensor Probe), 03L 906 088 N (Shrou	ded Sensor Probe)

#### **Exhaust Gas Temperature Sensor**

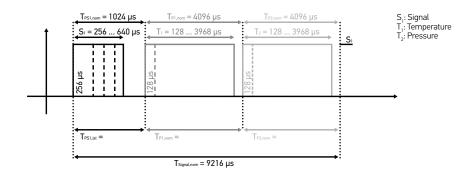
M14x1.5 thread, working temperature range up to 850°C. Right angle cable exit from sensor. Suits use with aftermarket monitoring systems and gauges. Also suits VW, Audi and other diesel vehicle applications from 2007 onwards.







6PP 010 378-101 - Combined Digital Oil Pressure and Temperature Sensor	
M12x1.5 Thread	
Shrouded sensor probe	
Multi-Mode PWM Signal (See detail below)	
-40°C to 150°C, 160°C Maximum	
0.5 to 10.5 bar, 40 Bar Maximum Operating	
3kHz	
2 ms	
12 61 8 613 333	



## OPS+T (Oil Pressure and Temperature Sensor)

Sensor produces a special PWM Output signal combining oil temperature and output signals. M12x1.5 Thread, temperature measurement range from -40 to 160°C and pressure from 0.5 to 10.5 Bar. Also suits BMW and Volvo vehicle applications



'Multi-Mode' PWM signals are used to communicate three different signals over PWM communication. A single PWM 'frame' is split into three closely linked pulses. The exact timing of each of the three pulses in the frame denotes the sensor outputs for fault signalling, oil temperature pressure respectively.

### TOWING, TRAILER AND TRUCK WIRING CONFIGURATIONS

Common trailer lighting pin configurations used for different plugs and sockets are tabled and illustrated below.

#### 5 Pole Round Light Duty Connector (AS2513)





Socket -Cable Entry View

Plug -Cable Entry View

### 7 Pole Round Light Duty Connector (AS2513)





Socket -Cable Entry View

Plug -Cable Entry View

#### 7 Pole Round Light Duty Connector (ISO1724)





Socket -Cable Entry View

Plug -Cable Entry View

# 5 POLE ROUND LIGHT DUTY CONNECTOR (AS2513) Terminal No. Function Colour 2 Left-hand flasher lamps Yellow 3 Earth return White 5 Right-hand flasher lamps Green 6 Stop lamps Red 7 Rear position, number plate and clearance lamps Brown

Note If separate earth cable is not used on vehicle, earthing strip supplied should be fitted into Terminal No. 3 of socket and under mounting screw as shown.

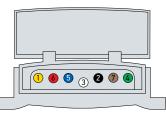
7 POLE ROUN	ID LIGHT DUTY CONNECTOR (AS2513)	
Terminal No.	Function	Colour
1	Left-hand flasher lamps	Yellow
2	Reversing lamps	Black
3	Earth return	White
4	Right-hand flasher lamps	Green
5	Service brakes (or Auxiliary)	Blue
6	Stop lamps	Red
7	Rear position, number plate and clearance lamps	Brown

 $\textbf{Note} \quad \text{Where service brakes are not fitted, Terminal No. 5 is commonly used for auxiliary trailer power.}$ 

7 POLE ROUND LIGHT DUTY CONNECTOR (ISO1724)		
Terminal No.	Function	Colour
1	Left-hand flasher lamps	Yellow
2	Rear fog lamp	Blue
3	Earth return	White
4	Right-hand flasher lamps	Green
5	Right tail lamp, clearance lamp, sidelamp and number plate lamp	Brown
6	Stop lamps	Red
7	Left tail lamp, clearance lamp, sidelamp and number plate lamp	Black

Note Common hardware to AS2513 7 Pole Round connector, but accounts for separate right/left tail lamps and rear fog lamps. Also does not account for reversing lamps on the trailer.

#### $\textbf{7 Pole Flat Light Duty Connector} \hspace{0.1cm} \textbf{(AS2513)}$



Socket - Cable Entry View



Plug - Cable Entry View

erminal No.	Function	Colour
1	Left-hand flasher lamps	Yellow
2	Reversing lamps	Black
3	Earth return	White
4	Right-hand flasher lamps	Green
5	Service brakes (or Auxiliary)	Blue
6	Stop lamps	Red
7	Rear position, number plate and clearance lamps	Brown

#### 7 POLE ROUND HEAVY DUTY CONNECTOR (ISO1185) Terminal No. Function Colour Earth return White 1 2 Left tail lamp, clearance lamp, sidelamp and number plate lamp Black 3 Left-hand flasher lamps Yellow Red 4 Stop lamps 5 Right-hand flasher lamps Green 6 Right tail lamp, clearance lamp, sidelamp and number plate lamp Brown 7 Control trailer brake Blue

#### 7 Pole Round Heavy Duty Connector (ISO1185)





Socket -Cable Entry View

Plug -Cable Entry View

7 POLE ROUND HEAVY DUTY CONNECTOR (SAE J560)			
Terminal No.	ninal No. Function		
1	Earth return	White	
2	Clearance lamps/outline marker lamps, identification lamps	Black	
3	Left-hand flasher lamps	Yellow	
4	Stop lamps	Red	
5	Right-hand flasher lamps	Green	
6	Tail lamps and number plate lamps	Brown	
7	Brake controller (or Auxiliary) Power	Blue	

#### 7 Pole Round Heavy Duty Connector (SAE J560)





Socket -Cable Entry View

Plug -Cable Entry View

7 POLE ROUND HEAVY DUTY CONNECTOR (AS4735)			
Terminal No. Function Color		Colour	
1	Earth return	White	
2	Left tail lamp, clearance/outline lamp, identification and number plate lamp	Black	
3	Left-hand flasher lamps	Yellow	
4	Stop lamps	Red	
5	Right-hand flasher lamps	Green	
6	Right tail lamp, clearance/outline lamp, identification and number plate lamp	Brown	
7	Reversing lamps	Blue	

#### 7 Pole Round Heavy Duty Connector (AS4735)





Socket -Cable Entry View

Plug -Cable Entry View

#### 7 POLE ABS/EBS CONNECTOR (ISO 7638-1 / ISO 7638-2)

Terminal No.	Function	Colour	
1	(+) 12V or 24V permanent for control valves	Red	
2	(+) 12V or 24V via ignition lock for electronics	Black	
3	Ground for electronics (Pin 2)	Yellow	
4	Ground for control valves (Pin 1)	Brown	
5	ABS Fault Indication	White	
6	CAN H, for EBS and ABS	Green/White	
7	CAN L, for EBS and ABS	Brown/White	

This connector is intended to be used for ABS and EBS on heavy duty trailers. 12V ISO 7638-2 connector is identified with a key between pin 3 and 4, while 24V ISO 7638-1 connector is identified with a key at pin 5. Multivolt™ Connector: Only to be used on Multivolt™ ABS/EBS systems. It is the responsibility of the user to ensure correct voltage compatibility and latch alignment. System created for 12V and 24V. We assume no liability for damage resulting from improper application.

#### 7 Pole ABS/EBS Connector (ISO 7638-1 / ISO 7638-2)





12V Plug Cable entry view ISO 7638-2

24V Plug Cable entry view ISO 7638-1



Multivolt™ suzi coil comes with warning flags

#### 7 Pole Metal Socket



4901	8JB 001 941-004 - Metal Housing	-
4901BULK	8JB 001 941-005 - Metal Housing	PACK OF 25
Description	Metal housing with securing cap locks plug in position.	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	
Accessory	9GD 735 641-001 Rubber boot	
Wiring Standards	AS2513, IS01724 (Light duty)	

#### 7 Pole Plastic Plug



4902	8JA 905 386-001 - Plastic Housing
Description	Black Plastic Plug with strain relief.
Maximum Load	20A @ 12V (total). 10A @ 24V (total).
Wiring Standards	AS2513, IS01724 (Light duty)

#### 7 Pole Plastic Plug



4909	8JB 001 939-003 - Plastic Housing
Description	Simply stores in boot until required. Requires no permanent bumper mounting.
Maximum Load	20A @ 12V (total). 10A @ 24V (total).
Wiring Standards	AS2513, IS01724 (Light duty)

#### 7 Pole Metal Plug

4911	8JA 001 918-003 - Metal Housing	-
4911BULK	8JA 001 918-004 - Metal Housing	PACK OF 25
Description	Metal housing.	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	
Wiring Standards	AS2513, IS01724 (Light duty)	



#### 7 Pole Plastic Socket

4912	8JB 001 943-091 - Plastic Housing
Maximum Load	20A @ 12V (total). 10A @ 24V (total).
Accessory	9GD 735 641-001 Rubber boot
Wiring Standards	AS2513, IS01724 (Light duty)



Rubber Boot 9GD 735 641-001

8JB 910 032-041		
IP Rating	IPX7 and IPX9K	
Wire Size	1.0 – 2.5mm²	
Standard	ISO 1724	
Wiring Standards	AS2513, IS01724 (Light duty)	

#### 7 Pole Weatherproof Socket

Weatherproof 7 Pole round socket for light duty applications. Fully sealed including at cable entry and socket access door. Crimp style connections require a crimping tool to suit "VKS-Plus" style terminals.



#### 7 Pole Flat Socket



4920	8JB 910 032-011
Maximum Load	20A @ 12V (total) 10A @ 24V (total)
Wiring Standards	AS2513 Flat (Light duty)

#### 7 Pole Flat Weatherproof Socket

Weatherproof 7 Pole Flat socket for light duty applications. Fully sealed including at cable entry and socket access door. Crimp style connections require a crimping tool to suit "MCP 2.8" style terminals.



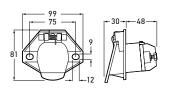
8JB 910 032-021		
IP Rating	IPX7 and IPX9K	
Wire Size	1.5 - 2.5mm²	
Wiring Standards	AS2513 Flat (Light duty)	

#### 7 Pole Flat Plug

Mates with all standard 7 and 12 pole connectors.



4921	8JA 910 032-001	-
4921-BULK	8JA 910 032-002	PACK OF 50
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	
Wiring Standards	AS2513 Flat (Light duty)	

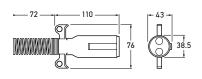


4941	8JB 905 394-011	SOCKET
Maximum Load	200A @ 12V	

#### 2 Pole Socket - 200A

2 Pole Socket designed for applications with high current draw requirements. Easy to install and operates interdependently of lighting circuit.





4940	8JA 905 394-001	PLUG
Maximum Load	200A @ 12V	

#### 2 Pole Plug - 200A

2 Pole Socket designed for applications with high current draw requirements. Easy to install and operates independently of lighting circuit.



4907	8JB 003 833-002		SOCKET
4908	8JA 003 831-002		PLUG
Maximum Load	15A @ 24V with 1.5mm² cable (total) 20A @ 24V with 2.5mm² cable (total)	7 x 40A @ +12V 7 x 20A @ +24V	
Suitability	4907 suits 4908, 4934 & 4934NY 4908 suits 4907, 4935 & 4935NY		
Wiring Standards	ISO 1185, SAE J560, AS4735		

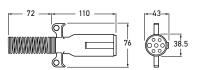
#### 7 Pole Heavy Duty Plug and Socket

Plug and Socket made from metal, with screw terminals (ISO 1185).



#### 7 Pole Heavy Duty SAE Plug - Metal

Heavy-duty 7 Pole Metal Plug manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. Features die-cast zinc housing, high-conductivity 100 percent brass floating pins held between sonic-welded inserts and spring cable guard for additional support and protection. Larger finger grips set back from the latched socket lid allow for safe and trouble-free disconnection.



4934	8JA 905 392-001	PLUG
Maximum Load	70A @ 12V	
Suits	Part No. 4907, 4935 and 4935NY	
Wiring Standards	ISO 1185, SAE J560, AS4735	

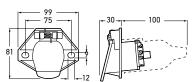


#### 7 Pole SAE Socket - Metal

Heavy-duty 7 Pole Metal Socket die-cast in robust zinc and manufactured in accordance with AS 4375-2003 (ISO1185 & SAE J560B) standards. Features include full opening lid for ease of plug insertion and extended front barrel housing for added plug support. Raised internal ribs allow for drainage of moisture to prevent corrosion and short circuits. Includes protective rubber boot, Part No. 4936.



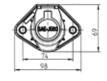


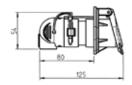


4935	8JB 905 392-021	SOCKET
Mounting	58.9mm diameter opening	
Maximum Load	70A @ 12V	
Suits	Part No. 4934 and 4934NY	
Spare part	4936 Protective Rubber Boot ①	
Wiring Standards	ISO 1185, SAE J560, AS4735	

#### 7 Pole SAE Socket - Weatherproof

Weatherproof 7 Pole socket for heavy vehicle applications. Also suitable where a water-resistant socket is required (some hazardous goods applications). Fully sealed including at cable entry and socket access door. Crimp style connections require a crimping tool to suit "Double B-Crimp with seal" style terminals.

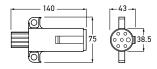




#### 8JB 905 392-051

IP Rating	IPX7 and IPX9K
Cable Size	AWG 10-12 (4.0-6.0 mm²) for all cables except earth, AWG 8 (10.0 mm²)
Wiring Standards	ISO 1185, SAE J560, AS4735



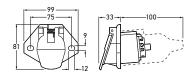


4934NY	8JA 905 392-011	PLUG
Maximum Load	70A @ 12V	
Suits	Part No. 4907, 4935 and 4935NY	
Wiring Standards	ISO 1185, SAE J560, AS4735	

#### 7 Pole SAE Plug - Nylon

Heavy-duty 7 Pole Plug manufactured in accordance with AS 4735-2003 (ISO1185 and SAE J560B) standards. The ultra-durable nylon housing is of lightweight and resistant to degreasers, solvents and contact cleaners. Other features include high-conductivity 100 percent brass pins, exclusive cable guard and 360 degree compression clamp creating a rear moisture seal, whilst also preventing accidental cable pull out.





8JB 905 392-031	SOCKET
58.9mm diameter opening	
70A @ 12V	
Part No. 4934NY and 4934	
4936 Protective Rubber Boot	
ISO 1185, SAE J560, AS4735	
	58.9mm diameter opening  70A @ 12V  Part No. 4934NY and 4934  4936 Protective Rubber Boot



#### 7 Pole SAE Socket - Nylon

Heavy-duty 7 Pole Socket made from composite glass-filled nylon and manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. The ultra-durable nylon housing is of lightweight and resistant to petrochemicals, solvents and contact cleaners. Raised internal ribs allow for drainage of moisture to prevent corrosion and short circuits. Other features include full opening lid and extended front barrel housing for additional support and protection. Supplied complete with protective rubber boot, Part No. 4936.



<b>8PD 004 508-011</b> - 7 Pin IS01185 / SAE J560 Socket Tester		SOCKET
8PD 004 508-021 - 7 Pin ISO1185 / SAE J560 Plug Tester		PLUG
Wiring Standards	ISO 1185. SAE J560. AS4735	

#### ISO1185 / SAE J560 Socket / Lead Tester

Circuit testers make diagnosing wiring and lighting issues on trailers quick and easy in the field. Socket testers check the status of connections on the vehicle while the plug tester can be used at the end of a connection lead attached to the vehicle output socket.





8PD 004 508-011

8PD 004 508-021

#### Suzi Coil with 7P ISO 1724 / AS 2513 Plugs

Cable outlet: PG Gland. Outer Coil Diameter: 50mm.



8KA 227 440-101	
Housing	Silver coloured break-proof metal
Maximum Working Length	4.6m
Cable Outlet	PG Gland
Wire Cross Section Area	6 x 1.5 mm <sup>2</sup> + 1 x 2.5 mm <sup>2</sup>
Tail Ends	Tail 1: 220 mm, Tail 2: 220 mm

#### Suzi Coil with 7P ISO 1724 / AS 2513 Plugs Long tail

Cable outlet: PG Gland.
Outer Coil Diameter: 50mm.



8KA 227 440-111 - Long Tail	
Housing	Silver coloured break-proof metal
Maximum Working Length	5.6m
Cable Outlet	PG Gland
Wire Cross Section Area	6 x 1.5 mm <sup>2</sup> + 1 x 2.5 mm <sup>2</sup>
Tail Ends	Tail 1: 300 mm, Tail 2: 1300 mm

#### Suzi Coil with Heavy Duty 7P SAEJ 560 Plugs

These 7 pin spiral cable-plug assemblies are designed to provide a superior electrical connection between the Prime mover and trailer. The uni-molded connector bodies are extremely robust providing best in class performance and are completely unique to the market.

- High performance crimped contacts
- Integrated strain relief provides permanent kink protection
- Resistant to diesel fuel, engine coolant, engine oil, gear oil, water, salt, dirt, UV radiant and impact resistance.



8KA 905 392-041	
Housing	Uni-molded connector body seals out water and corrosive chemicals
Cable Outlet	Molded, bending protection
Wire Cross Section Area	4 x 3 mm <sup>2</sup> + 2 x 5 mm <sup>2</sup> + 1 x 8 mm <sup>2</sup>
Max. Working Length	4m
Max. Extension Length	4.5m

### Suzi Coil with 7P AS 2513 to SAE J560

Outer Coil Diameter: 50mm. Maximum working length 4.6m.



# BKA 227 440-141 Housing ISO plug: Silver coloured break-proof metal SAE plug: Reinforced composite plastic Pins 7 Maximum Working Length 4.6m Wire Cross Section Area 6 x 1.5 mm² + 1 x 2.5 mm² Tail Ends Tail 1: 300 mm, Tail 2: 300 mm

# BKA 227 440-151 - Long Tail Housing ISO plug: Silver coloured break-proof metal SAE plug: Reinforced composite plastic Pins 7 Maximum Working Length Wire Cross Section Area 6 x 1.5 mm² + 1 x 2.5 mm² Tail Ends Tail 1: 300 mm, Tail 2: 1300 mm

## Suzi Coil with 7P AS 2513 to SAE J560

Outer Coil Diameter: 50mm. Maximum working length 5.6m.



8JA 227 440-121	
Current	16A
Housing	Reinforced Plastic
Contact Surface	Nickel

#### 7P Trailer Adaptor 13P to 7P

Mini Short Adaptor from vehicle 13P /12V to trailer 7P/12V.



8KA 227 440-131			
Housing	Break-proof silver coloured metal Housing plug with PVC cable		
Cable Length	3m Maximum		
Cable Outlet	PG Gland		
Wire Cross Section Area	7 x 1.5 mm <sup>2</sup>		

#### Straight Cable with 7P ISO 1724 / AS 2513 Plugs



#### 7P/12V ABS/EBS Socket with Screw Contacts

Made of reinforced composite with cover and rubber seals, and high strength cable gland of the cable outlet.



8JB 227 440-011		
Operating voltage	12V DC	
Pins	7	
Housing	Reinforced Composite	
For Cable	9 - 16mm	
Contact Termination	Screw Contact	
Standard	ISO7638-2	

#### 7P/12V ABS/EBS Plug with Screw Contacts

Made of reinforced composite with rubber seals. Mechanical strain relief.



8JA 227 440-031		
Operating voltage	12V DC	
Pins	7	
Housing	Reinforced Composite	
For Cable	9 - 16mm	
Contact Termination	Screw Contact	
Standard	ISO7638-2	

#### Suzi Coil with 7P/12V ABS/EBS Plug

Max 4.5m cable length with plug at both ends and bending protection grommet. Outer cable dia: 50mm.



8KA 227 440-051		
Operating voltage	12V DC	
Pins	7	
Max. Working Length	4m	
Max. Extension Length	4.5m	
Standard	IS07638-2	

8JB 227 440-021		
Operating voltage	24V DC	
Pins	7	
Housing	Reinforced Composite	
For Cable	9 - 16mm	
Contact Termination	Screw Contact	
Standard	ISO 7638-1	

### 7P/24V ABS/EBS Socket with Screw Contacts

Made of reinforced composite, with cover and rubber seals, and a high strength cable gland at the cable outlet. colour coded for easy installation.



# 8JA 227 440-041 Operating voltage 24V DC Pins 7 Housing Reinforced Composite For Cable 9 - 16mm Contact Termination Screw Contact Standard ISO 7638-1

## 7P/24V ABS/EBS Plug with Screw Contacts

Made of reinforced composite with rubber seals. Mechanical strain relief. colour coded for easy installation.



# 8KA 227 440-061 Operating voltage 24V DC Pins 7 Max. Working Length 4m Max. Extension Length 4.5m Standard ISO 7638-1

#### Suzi Coil with 7P/24V ABS/EBS Plug

Max 4.5m cable length with plug at both ends and bending protection grommet.

Outer cable dia: 50mm.



#### Suzi Coil without Plug

Working length: 4.5 meters. Temperature range: -40°C to 100°C. Outer coil diameter: 50mm. Suitable for ABS/EBS connections with appropriate plugs



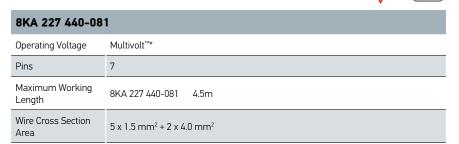
#### 8JA 227 440-071

Wire Cross Section 5 x 1.5mm<sup>2</sup> 2 x 4 mm<sup>2</sup> Area

#### Suzi Coil with 7P / Multivolt™ ABS/EBS Plug

Temperature range: -40°C to 100°C. Outer Coil Diameter: 50mm.





Tail 1: 300 mm, Tail 2: 300 mm

8KA 227 440-081

#### Suzi Coil with 7P / Multivolt™ ABS/EBS Plug Long Tail

Temperature range: -40°C to 100°C. Outer Coil Diameter: 50mm.







#### 8KA 227 440-181 - Long tail

Tail Ends

Operating Voltage	Multivolt™*
Pins	7
Maximum Working Length	8KA 227 440-181 5.2m
Wire Cross Section Area	5 x 1.5 mm <sup>2</sup> + 2 x 4.0 mm <sup>2</sup>
Tail Ends	8KA 227 440-181 Tail 1: 300 mm, Tail 2: 1000 mm

<sup>\*</sup>Caution: Operator must confirm voltage compatibility of prime mover and trailer.

<sup>\*</sup>Caution: Operator must confirm voltage compatibility of prime mover and trailer.





# 8JA 227 440-091 Operating Voltage Multivolt\*\*\* Pins 7 Housing Reinforced Composite For Cable 11 mm to 18 mm Contact Termination Screw Contact

#### **7P / Multivolt™ ABS/EBS Plug**

Made of reinforced composite, with cover and rubber seals, and a high strength cable gland at the cable outlet.



# Housing Reinforced Composite Suitable For 7P ABS/EBS Plugs 13P & 15P Plugs

#### Park Socket

Used when Plug is not connected to actual socket to prevent the exposure to environment.



#### 8PD 004 508-031 - 7 Pin IS07638-1 Socket Tester

Wiring Standards ISO 7638-1 (24V)

#### IS07638-1 ABS/EBS Socket Tester

Circuit testers make diagnosing wiring and lighting issues on trailers quick and easy in the field. The ABS/EBS Socket tester can be used on 24V and Multi-Volt ABS/EBS Sockets to confirm connectivity and functionality of the socket.

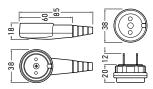


 $<sup>^{\</sup>star}$ Caution: Operator must confirm voltage compatibility of prime mover and trailer.

#### Magcode® Power Outlet Systems

System with magnetically coded flat contacts. Port (outlet) and clip (connector) feature powerful magnets with integral switching function ensuring stable connection and safe power supply. Easy to install, 100 percent short circuit proof. Suits retro-fitting.







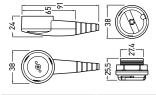


HMPS12VKIT	8KW 910 169-001		POWER SYSTEM - 12V DC		
HMPS24VKIT	8KW 910 169-351			POWER SYSTEM - 24V DC	
HMPS12VPT	8KW 910 170-021			POWER PORT - 12V DC	
HMPS24VPT	8KW 910 169-341			POWER PORT - 24V DC	
HMPS12VCP	8KW 910 168-001			POWER CLIP - 12V DC	
HMPS24VCP	8KW 910 168-241			POWER CLIP - 24V DC	
Mounting	28mm dia. (M28) opening				
Maximum Load	25A @ +20°C	25A @ +7	0°C	20A @ +85°C	
Rated Voltage	12V DC 24V DC				
Locking Mechanism	Magnetic Connection				
Protection	Port (front side installed) IP6K9K Clip (not c Port (connection side) IP5K0 Clip (on p		onnected) IP40 ort) IP42		

#### MagCode® Pro Power Outlet Systems

Advanced system for higher power circuits featuring additional mechanical twist lock for greater security (higher separation forces) and reliable prevention from arcing.









HMPSPR012VKIT	8KW 910 169-011		POWER SYSTEM PLUS - 12V DC	
HMPSPR012VPT	8KW 910 170-011		POWER PORT PLUS - 12V DC	
HMPSPR012VCP	8KW 910 168-011		POWER CLIP PLUS - 12V DC	
Mounting	28mm dia. (M28) opening			
Maximum Load	26A @ +20°C	25A @ +7	0°C	20A @ +85°C
Rated Voltage	12V DC	24V DC		
Locking Mechanism	Magnetic Connection plus mechanical twist lock			
Protection	Port (front side installed) IP6K9K Clip (not connected) IP40 Port (connection side) IP5K0 Clip (on port) IP42			

#### 2 Pole Socket



Chrome-plated 2-pin polarised. All-brass connection.

2741	8JB 950 987-001	SOCKET
Maximum Load	22A @ 12V	
Mounting	Surface Mount ( 3x3mm holes).	



#### 2 Pole Plug



Chrome-plated 2-pin polarised. All-brass construction. Waterproof gland cable entry.



2742	8JA 950 988-001	SOCKET
Maximum Load	22A @ 12V	

#### 4 Pole Socket



Chrome-plated 4-pin polarised. All-brass construction.

2744	8JB 950 989-001	SOCKET
Mounting	Surface Mount ( 3 x 3mm holes)	
Maximum Load	22A @ 12V	



#### 4 Pole Plug



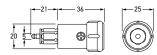
Chrome-plated 4-pin polarised. All-brass construction. Waterproof gland cable entry.



2745	8JA 950 990-001	PLUG
Maximum Load	22A @ 12V	

#### 2 Pole Plug

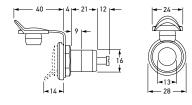




4914	8JA 002 262-021	PLUG
Maximum Load	16A @ 12V 8A @ 24V	
Sockets to Suit	Part No. 4915, 4916, 4917 and 4918.	

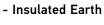
#### 2 Pole Socket with Cover



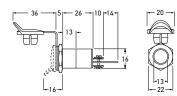


4915	8JB 001 946-023	SOCKET
Mounting	19mm diameter opening	
Maximum Load	16A @ 12V 8A @ 24V	

#### 2 Pole Socket with Cover



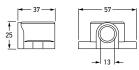




4916	8JB 004 777-013	SOCKET
Mounting	19mm diameter opening	
Maximum Load	16A @ 12V 8A @ 24V	

#### 2 Pole Surface Mount Socket

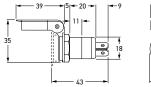




4917	8JB 004 123-005	SOCKET
Mounting	Surface Mount	
Maximum Load	16A @ 12V 8A @ 24V	

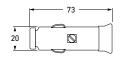
#### 2 Pole Socket with Metal Earth Tab and Cover





13 -	
388-001	
ameter opening	

4918	8JB 905 388-001	SOCKET
Mounting	22mm diameter opening	
Maximum Load	16A @ 12V 8A @ 24V	

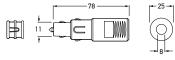


4950	8JA 905 395-001	PLUG
Maximum Load	8A @ 12V 4A @ 24V	
Socket to Suit	Part No. 4942 & 4943	

#### 2 Pole Power Plug

Suitable for standard cigarette sockets.



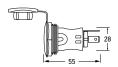


4952	8JA 007 589-003	PLUG
Maximum Load	8A @ 12V	
Sockets to Suit	Part No. 4913, 4915, 4916, 4917, 4918, 4939, 4942 and 4943.	

#### 2 Pole Fused Power/DIN Plug

Combination Lighter/DIN 2 Pole Plug with in-built 8A ceramic type fuse suitable for both cigarette lighter and DIN ISO 4165 sockets (standard 2 pole sockets).



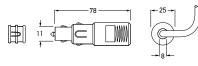


4943	8JB 008 023-001	SOCKET
Maximum Load	15A @ 12V	
Plugs to Suit	Part No. 4950, 4951, 4952 & 4939.	

#### 2 Pole Power Socket

2 Pole lighter size Power Socket with protective cover for connection of a variety of electrical accessories.





4939	8JB 008 032-001	SOCKET
Maximum Load	10A	

#### 2 Pole Power Socket - Twin DIN Output

Twin Power Socket featuring two DIN 1465 output sockets for connection of accessories. Plugs into standard vehicle cigarette lighter sockets. Primary lighter plug connection features a removable extension piece allowing the unit to also plug into DIN 2 pole sockets if required.

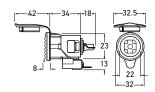


#### 2 Pole Power Socket

#### - Illuminated - 12V

2-pole cigarette-lighter-size Power Socket with protective cover and illuminated collar for connection of a variety of electrical accessories.



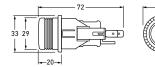


4942	8JB 008 023-011	SOCKET
Voltage	12V Globe included	
Maximum Load	15A @ 12V	
Globes to Suit	12V (W121.2) 24V (W241.2)	
Sockets to Suit	Part No. 4950, 4951, 4952 & 4939.	

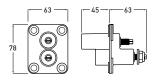
#### Cigarette Lighter - Illuminated

Illuminated Cigarette Lighter with inbuilt globe. Ready to light in 10 seconds.





4937	8EZ 008 021-001	12 VOLTS
4938	8EZ 008 021-011	24 VOLTS
Voltage	12V 24V	
Globes to Suit	12V (W121.2) 24V (W241.2)	



HM7546J	8JB 177 305-001		JUMP START TERMINAL
HM7546KIT	8HG 177 305-031		JUMP START TERMINAL KIT
HM7546P	8JA 177 305-101		JUMP START PLUG
Spare Parts	HM7546B HM7546C	Terminal Bracket ① Terminal Cap ②	



#### **Jump Start Terminals**

Heavy duty, high capacity Jump-Start Connectors for vehicles and equipment. Ideal for use where access to terminals is restricted or dangerous. Eliminates chance of cross polarity connections through the specially shaped plug. Reduces chance of sparking and possible ignition of flammable materials. Kit contains terminal, bracket and cap.



2782	8JA 006 801-802	2 POLE PLUG & SOCKET
2783	8JA 006 803-801	3 POLE PLUG & SOCKET
2784	8JA 006 805-802	4 POLE PLUG & SOCKET
2785	8JA 006 807-802	7 POLE PLUG & SOCKET
Mounting	Suitable for surface mounting with mounting base	, Part No. 2786
Maximum Load	2, 3 and 4 pole –16A at 12V (Suitable for up to 48V) 7 pole – 10A to 12V (Suitable for up to 48V)	

Cross section up to 2.5m2 (5mm insulation)

2782 Pin	2783 Pin	2784 Pin	2785 Pin

IP67

Cable Dimensions

Protection

#### **Weatherproof Connectors**

Plastic construction with screw-type connection and rubber O-ring seal for waterproof connection. Strain relief for plug cable and a protective cover to protect socket when not in use.



#### **Mounting Base**

Surface Mounting Base to suit Part No. 2782-2785. Eliminates need to recess the socket.



2786 8XT 006 798-002



#### 2-Pole DT Type Connector Housings



2-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4940	8KW 905 683-001 <b>– PLUG</b>	PACK OF 15
9.HM4941	8KW 905 684-001 - SOCKET	PACK OF 15
4960-P	8JA 959 736-811 - PLUG WITH TERMINALS	PACK OF 1

#### 3-Pole DT Type Connector Housings



3-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4942	8KW 905 683-011 <b>– PLUG</b>	PACK OF 15
9.HM4943	8KW 905 684-011 <b>– SOCKET</b>	PACK OF 15

#### 4-Pole DT Type Connector Housings



4-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4944	8KW 905 683-021 <b>– PLUG</b>	PACK OF 10
9.HM4945	8KW 905 684-021 - SOCKET	PACK OF 10

#### **6-Pole DT Type Connector Housings**

6-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4946	8KW 905 683-031 <b>– PLUG</b>	PACK OF 10
9.HM4947	8KW 905 684-031 - SOCKET	PACK OF 10
4963-P	8JA 959 736-801 – PLUG WITH TERMINALS	PACK OF 1



#### 8-Pole DT Type Connector Housings

8-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4948	8KW 905 683-041 <b>– PLUG</b>	PACK OF 5
9.HM4949	8KW 905 684-041 <b>– SOCKET</b>	PACK OF 5



#### 12-Pole DT Type Connector Housings

12-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4950	8KW 905 683-051 <b>– PLUG</b>	PACK OF 5
9.HM4951	8KW 905 684-051 – <b>SOCKET</b>	PACK OF 5



DT TYPE CONNECTOR TERMINALS AND BLIND PLUGS			
9.HM4955	8KW 905 026-001 <b>– FOR PLUG</b>	PACK OF 100	
9.HM4954	8KW 905 025-001 - FOR SOCKET	PACK OF 100	
9.HM4956	8JA 905 048-001 <b>– FOR ALL</b>	PACK OF 50	

# DT Type Connector Terminals and Sealing Plugs

Terminals suit AWG14 / 2.0mm² cable conductor sizes.



#### **Superseal Connectors**

Superseal connector housings were developed to satisfy increasing requirements for safety and reliability in the field of electrical connections. The connectors can be connected to existing components and used with the equipment presently in use in the automotive industry (sensors, oil pressure sensors, water temperature monitoring circuits, etc.).

- → IP 67 (Protection against dust and temporary water immersion)
- → Robust and reliable contact. Max. current 14A.
- → Prefabricated secondary lock ensures that the terminal is plugged into the housing correctly and prevents slipping out of the connector.



For 'P' and 'S' versions only the bare connector is supplied. Select appropriate seals and terminals to suit.





1 POLE PLUG AND SOCKET		
HM4981-P 8KW 959 881-515 – (Pack of 4) PLUG		PLUG
HM4981-S	8KW 959 881-015 – (Pack of 4)	SOCKET





2 POLE PLUG AND SOCKET			
HM4982-P	8KW 959 881-52	25 – (Pack of 4)	PLUG
HM4982-S	8KW 959 881-005 – (Pack of 4)		SOCKET
Spare Part	9.4982.05	Rubber sealing boot – cable support	





3 POLE PLUG AND SOCKET			
HM4983-P	8KW 959 881-535 – (Pack of 3)		PLUG
HM4983-S	8KW 959 881-035 – (Pack of 3)		SOCKET
Spare Part	9.4983.05	Rubber sealing boot – cable support	





4 POLE PLUG AND SOCKET		
HM4984-P	8KW 959 881-545 – (Pack of 3)	PLUG
HM4984-S	8KW 959 881-045 – (Pack of 3)	SOCKET





5 POLE PLUG		
HM4985-P	8JA 959 881-555 – (Pack of 2)	PLUG
HM4985-S	8JA 959 881-055 – (Pack of 2)	SOCKET





6 POLE PLUG AND SOCKET		
HM4986-P	8KW 959 881-565 – (Pack of 2)	PLUG
HM4986-S	8KW 959 881-065 – (Pack of 2)	SOCKET

#### Superseal Connector Kit

Kit contains a variety of Superseal connectors.

HM4980	8JA 009 256-801	
Contents	Plug and Socket Plug Terminals Socket Terminals Conductor Seals Cavity Plugs	5 x Superseal Plug and Sockets 100 x 9.HM4980.02 100 x 9.HM4980.04 100 x 9.HM4980.06 ■ Yellow 100 x 9.HM4980.09 ■ Red



FEMALE TERMINALS FOR PLUG - PACK OF 50		
9.HM4980.01	8KW 959 882-811	
9.HM4980.02	8KW 959 882-511	
To Suit	9.HM4980.01 9.HM4980.02	0.35 - 0.50mm² cable 0.50 - 1.50mm² cable



MALE TERMINALS FOR SOCKET - PACK OF 50		
9.HM4980.03	8KW 959 882-411	
9.HM4980.04	8KW 959 882-111	
To Suit	9.HM4980.03 0.35 - 0.50mm² cable 9.HM4980.04 0.50 - 1.50mm² cable	



SEALS FOR PLUG/SOCKET - PACK OF 50			
9.HM4980.05	9GD 959 883-201		GREEN SEAL
9.HM4980.06	9GD 959 883-001		YELLOW SEAL
9.HM4980.07	9GD 959 883-301		■ RED SEAL
9.HM4980.09	9GD 959 883-501		RED CAVITY PLUG (NO HOLE)
To Suit	9.HM4980.05 9.HM4980.06 9.HM4980.07 9.HM4980.09	Cable insulation 1.45 - 1.7mm diamet Cable insulation 1.8 - 2.4mm diamete Cable insulation 2.5 - 3.3mm diamete Red cavity plug (no hole)	er YELLOW 2



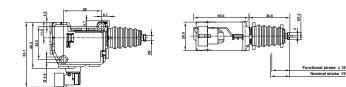


CRIMPING TOOL - SUPERSEAL TERMINALS		
HM8298	8PE 980 838-001	
Crimping tool designed for use with Superseal connector terminals.		

#### **Electric Actuators**

HELLA medium force Actuators are the actuator of choice in numerous OE vehicle applications. Actuator stroke length of 18mm, in different extension/retraction and spring return options. Separate models to suit 12V or 24V vehicle DC power supply. IP 5K4 ingress protection against dust and water, Superseal 2-pole electrical connection.





6NW 009 203-421 - Medium Force Actuator, 12V, No Spring Return

6NW 009 203-471 - Medium Force Actuator, 12V, Spring Return

6NW 009 203-501 - Medium Force Actuator, 12V, Spring Return

Voltage	9-15V DC
Current Draw (Idling)	0.35 A
Current Draw (Maximum/Stalled)	10.5A (Sprung Return Models)
Actuating Force	100N (35°C Ambient Temperature)
Functional Stroke	18mm
IP Rating	IP5K4
Operating Temperature	-40°C to 60°C
Weight	90g

#### 6NW 009 203-441 - Medium Force Actuator, 24V, No Spring Return

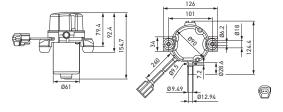
#### 6NW 009 203-521 - Medium Force Actuator, 24V, Spring Return

Voltage	18-30V DC
Current Draw (Idling)	0.2-0.6 A (idling)
Current Draw (Maximum/Stalled)	4.2A (Non-Spring Return Models),
Nominal Actuating Force	100N (35°C Ambient Temperature)
Functional Stroke	18mm
IP Rating	IP 5K4
Operating temperature	-40°C to 60°C
Weight	90g

#### UP5.0 Electric Vacuum Pump

Suitable for electric, hybrid and off-road vehicles that do not have a strong constant vacuum source to maintain operation of the brake booster in the vehicle and require a standalone pump to generate vacuum pressure to drive accessory systems or vacuum brake boosters.





#### 8TG 012 377-701

Vacuum Reservoir Size	To suit 5L nominal system volume	
Vacuum Connection	9.5mm Quick Release fuel/vacuum port	
Nominal Voltage	12V	
Average Current Draw	16A	





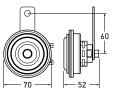
#### Low Tone Disc Horn

Single bolt mount. 92mm diameter.



6001	3AL 002 9	52-011 <b>– 400</b> Hz		-	12 VOLT DC
6002	3BA 002 768-381 – <b>335Hz</b>			24 VOLT DC	
Power Consumption	72W	6A - 12V DC,	3A - 24V DC		
Frequency	6001 - 400Hz 6002 - 335Hz				
Sound Pressure Level	115db(A) @	2m			





# 420 Hz (high tone) Sound Pressure Level 112dB(A) @ 2m ECE R28 (E9) 6053

#### Super Tone S70 Horn

The HELLA Super Tone S70 disc horn provides outstanding size/performance ratio with a long-range sound in a compact space-saving body.







6029

Rated voltage Power Consumption

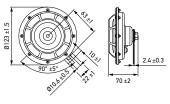
Frequency

Approval Bracket

12V DC

30 W

M8 mounting screw



3AF 005 631-221	Low tone unit	24 VOLT	
3AF 005 631-231	High tone unit	24 VOLT	
Rated Voltage	24V DC		
Power Consumption (each)	70W		
Frequency	300 Hz (Low tone) / 450 Hz (High tone)		
Sound Pressure Level	118dB(A) @ 2m (Pair of horns)		
Approval	ECE R28 (£9)001429		
IP Rating	IP 67		
Mounting	M10 mounting screw to bracket		

#### Super Tone B133E Long-Life Horn

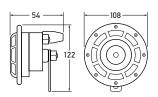
The Super Tone B133E is the horn for heavy vehicle applications requiring a penetrating sound and outstanding environmental resistance. Rated to IP 67 for ingress protection against dust and equipped with a sealed DT-Type 2-pole electrical connection with a robust black epoxy finish.



#### Sharp Tone M26S Horn Set

The HELLA Sharp Tone disc horn has a focused and high-penetrating power tone for drivers who want to be heard. Robust yellow protective grille and high corrosion protection make the Sharp Tone Horn ideal for tough offroad use. Unique design provides a dramatic look under your front grille.





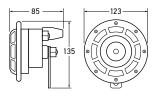


6028	3BB 922 000-731	
Rated voltage	12V DC	
Power Consumption	2 x 42 W	
Frequency	415 Hz (high tone) / 350 Hz (low tone)	
Sound Pressure Level	115dB(A) @ 2m	
Approval	ECE R28 (£4) 165	
Bracket	M8 mounting screw	
Kit Includes	High-Tone Unit, Low-Tone Unit, Relay, Mounting Brackets, Step-by-Step Mounting Instructions	

#### Super Tone B133 Horn Set

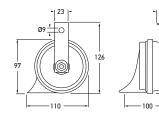
The HELLA Super Tone disc horn has a focused and high-penetrating power tone for drivers who want to be heard. Robust housing and high corrosion protection make the Super Tone Horn ideal for tough off-road use. Unique design provides a dramatic look under your front grille.







6036	3AG 003 399-801
Rated Voltage	12V DC
Power Consumption	2 x 66 W
Frequency	300 Hz (low tone) / 500 Hz (high tone)
Sound Pressure Level	118dB(A) @ 2m
Approval	ECE R28 (E1) 20033
Bracket	M8 mounting screw
Kit Includes	High-Tone Unit, Low-Tone Unit, Relay, Mounting Brackets, Step-by-Step Mounting Instructions



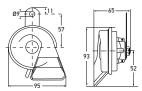
6004	3FH 007 424-804		12 VOLT DC	
Power Consumption	72W x 2	6A x 2		
Voltage	12V DC			
Frequency	High Tone Low Tone	500Hz 400Hz		
Sound Pressure Level	110dB(A) @ 2m			
Approval	ECE R28 (E1) 00020	9		

#### Twin Tone Scroll Horn - Set of 2

Includes 12V relay.







6005	3FH 007 728-835		12 VOLT DC
Power Consumption	72W x 2	6A x 2	
Voltage	12V DC		
Frequency	High Tone Low Tone	500Hz 400Hz	
Sound Pressure Level	110dB(A) @ 2m		
Approval	ECE R28 (E1) 0002	33	

#### Twin Tone Scroll Horn - Set of 2

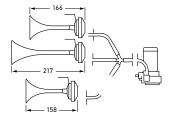
Galvanised metal housing and plastic horn. Safe from corrosion.





#### Air Horn Kit - Triple Trumpet

Polished stainless steel triple electric horns including support brackets.





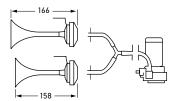
6007	3PD 003 001-623	12 VOLT DC	
Mounting	Installation accessories included		
Current Draw	20A @ 12V DC		
Power Consumption	240W		
Sound Pressure Level	118dB(A) @ 2m		
Frequency	780 / 820 / 880Hz		
Operating Pressure	110kPA (16psi)		

#### **Dual Trumpet Air Horn Kit**

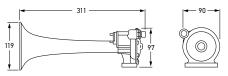
Installation accessories included.







6014	3PB 003 001-602	12 VOLT DC
6027	3PB 003 001-612	24 VOLT DC
Mounting	Installation accessories included	
Current Draw	20A @ 12V DC 10A @ 24V DC	
Power Consumption	240W	
Sound Pressure Level	118dB(A) @ 2m	
Frequency	780/840Hz	
Operating Pressure	110Kpa (16psi)	

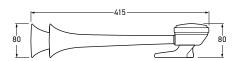


6025	3PA 004 206-041	12 VOLT DC	
Power Consumption	36W @ 12V DC, 3A @ 12V DC		
Sound Pressure Level	118dB(A) @ 2m		
Frequency	400Hz		
Operating Pressure	620-860Pa (90 -125psi)		
Approval	ECE R28 (E1) 20027		
Air Tube: 10mm internal diameter.			

#### Compressed Air Operated Horn

Ideal for trucks and buses. Grey shock-proof and corrosion resistant trumpet. This horn is designed to operate directly from the truck's air supply via the existing horn-button or separate switch.





6032	3PB 005 411-002		
Air Tube	6mm dia (4mm dia. internal)		
Sound Pressure Level	118dB(A) @ 2m		
Frequency	300 / 320Hz		
Operating Pressure	4-8.5 bar		
Approval	ECE R28 (E3) 42926		
Accessories	6033 Pull-operated hand valve   6035 Electro valve – 24V DC, 20W (activated via horn push-button)		



# Highway Compressed Air Operated Twin Horn

Compressed-Air-Operated Twin Horn featuring rust-proof, chrome-plated housing with black base and two trumpets. Designed to operate off commercial vehicle air brake systems. The horn unit is supplied with brass fittings, mounting gear, connecting air tube, mounting gasket and detailed instructions.



#### Heavy Duty Reversing Alarm

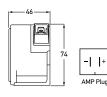
Heavy Duty Reversing Alarm with integral AMP connection and fixed sound pressure levels between 90 and 107dB @ 1.2 metres. Epoxy encapsulated circuit boards offer protection against humidity, dirt and vibration.













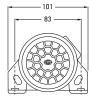
6008	3SL 009 148-001		90dB	
6009	3SL 009 148-011		97dB	
6010	3SL 009 148-021		107dB	
6011	3SL 009 148-061		97dB	
Mounting	Integrated universal m	ounting bracket for upright, pendant or s	urface mounting	
Voltage	12-24V DC (Part No. 60	011 - 12-48V DC)		
Current Draw	Part No. 6008 Part No. 6009 Part No. 6010 Part No. 6011	0.1A - 90db 0.2A - 97dB 0.3A - 107dB 0.2A - 97dB		
Frequency	60 signals per minute (	(± 20%).		
Sound Pressure Level	Part No. 6008 Part No. 6009 Part No. 6010 Part No. 6011	90dB(A) @ 1.2m 97dB(A) @ 1.2m 107dB(A) @ 1.2m 97dB(A) @ 1.2m		
Temperature	Operating range -40°C to 85°C.			
Protection	IP 66 (Protection against dust and high pressure washing)			
Spare Parts	9.6008.05 9.6008.06 6041	Rubber boot for AMP connection  Wiring loom for AMP connection (2 me Activating Switch 3 (see page 395)	etres) 2	
Compliance	SAE J994			

# Multivolt™ Reversing Alarm and Signal Horn

Heavy Duty Reversing Alarm with integrated, dual-tone Signal Horn. Reverse polarity and transient voltage spike protection.











6012	3SL 009 148-071		102dB
Mounting	Integrated universal	l mounting bracket for upright, pendant or so	urface mounting
Voltage	12-24V DC		
Current Draw	0.3A		
Frequency	Back-up alarm High Tone Low Tone	100 - 1500Hz 1000 - 1500Hz 80Hz (+/- 37%)	
Sound Pressure Level	102dB(A) @ 1.2m		
Temperature Range	-40°C to +85°C		
Protection	IP 66 (Protection ag	ainst dust and high pressure washing)	
Spare Part	6041	Activating Switch (1) (see page 395)	
Compliance	SAE J994 Type F		







6013	3SL 009 148-101
Mounting	Integrated universal mounting bracket for upright, penda
Voltage	12-24V DC
Current Draw	0.4A
Frequency	60 signals per minute (± 20%).

6013	3SL 009 148-101		82-102dB	
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting			
Voltage	12-24V DC			
Current Draw	0.4A			
Frequency	60 signals per minute (	60 signals per minute (± 20%).		
Sound Pressure Level	82 - 102dB(A) @ 1.2m			
Temperature	Operating range -40°C to 85°C.			
Protection	IP 66 (Protection against dust and high pressure washing)			
Spare Parts	9.6008.05 Rubber boot for AMP connection  9.6008.06 Wiring loom for AMP connection (2 metres)  6041 Activating Switch (3 (see page 395)		tres) 2	
Compliance	SAE J994			

#### Heavy Duty Reversing Alarm

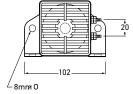
Heavy Duty Reversing Alarm with integral AMP connection. Automatically adjusts sound pressure level to changing noise environments. Solid state electronics, self-adjusting to the minimum of 5dB above surrounding noise levels effectively reducing irritation. Epoxy encapsulated circuit boards offer protection against humidity, dirt and vibration.













6015	3SL 910 035-001	102dB
Mounting	Surface mount (2 x 8.3mm dia. mounting holes)	
Voltage	12-24V DC	
Current Draw	0.3A	_
Frequency	80 signals per minute (typical)	
Sound Frequency	1200 Hz (typical)	
Sound Pressure Level	102dB(A) @ 1.2m	
Temperature	Operating range -40°C to +74°C.	_
Protection	IP 55	
Accessory	6041 Activating Switch (1) (see page 395)	

#### Heavy Duty Reversing Alarm

Heavy Duty Reversing Alarm equipped with reliable solid-state electronics. The compact design allows for installation on forklifts and other similarly sized vehicles. Manufactured in accordance with SAE J1446 and encapsulated in weather-resistant nylon housing for maximum protection against dust, moisture and vibration. Reverse-polarity and transientvoltage-spike protected.

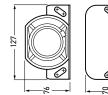




#### Heavy Duty Multivolt™ Reversing Alarm - 107dB

Heavy Duty Reversing Alarm with fixed sound pressure level of 107dB at 1.2 metres. Robust glass filled nylon housing and mounting plate protected with powder-coat paint for maximum durability. Completely sealed against humidity, dirt and vibration. Reversepolarity and transient-voltage-spike protected. Manufactured in accordance with SAE J944 standards









6016	3SL 996 139-102	107dB
Mounting	Integrated universal mounting bracket for upright, pendant or su	urface mounting
Voltage	Multivolt™ (12-36V DC)	
Current Draw	0.4A	
Frequency	1040-1560Hz	
Sound Pressure Level	107dB(A) @ 1.2m	
Temperature Range	-40°C to +85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

#### Heavy Duty Multivolt™ Reversing Alarm - 112dB

Heavy Duty Reversing Alarm with fixed sound pressure level of 112dB at 1.2 metres. Robust glass filled nylon housing and mounting plate protected with powder-coat paint for maximum durability. Completely sealed against humidity, dirt and vibration. Reversepolarity and transient-voltage-spike protected. Manufactured in accordance with SAE J944 standards.









6017	3SL 996 139-112	112dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting	
Voltage	Multivolt™ (12-36V DC)	
Current Draw	0.4A	
Frequency	1000-1500Hz	
Sound Pressure Level	112dB(A) @ 1.2m	_
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

#### Heavy Duty Multivolt™ Reversing Alarm, 87 - 112dB Automatic

Heavy Duty Reversing Alarm automatically adjusts sound pressure level to changing noise environments. Solid-state electronics selfadjust to a minimum of 5dB above surrounding noise levels effectively reducing irritation and hearing impairment. Robust steel housing and mounting plate protected with powder-coat paint for maximum durability.

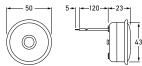








6018	3SL 996 139-002 87 - 112dB	
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting	
Voltage	Multivolt™ (12-24V DC)	
Current Draw	0.4A	
Frequency	960-1440Hz	
Sound Pressure Level	87 to 112dB(A) @ 1.2m	
Temperature Range	-40°C to +85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	



50	5-  -120-  -23-
$((\bigcirc))$	0   43

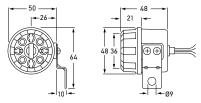
6021	3SB 905 413-001		85dB
6022	3SB 905 413-241		OSUD
Voltage	6021 6022	12V DC 24V DC	
Power Consumption	6W		
Current Draw	12V DC 24V DC	Less than 50mA Less than 25mA	
Sound Pressure Level	85dB(A) @ 1.2m		

#### Warning Buzzer

Piercing continuous sound. Suitable for a variety of applications e.g. headlamp, oil, handbrake, indicator, temperature, door close/open, brake fluid, etc.







6023	3SL 950 751-011	89dB
Voltage	12-36V DC	
Current Draw	Less than 50mA	
Sound Pressure Level	89dB(A) @ 1.2m	

#### Multivolt™ Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.



6041	6EH 905 414-001	OFF-ON
Mounting	Adjacent to the gear shift lever or linkage	
Protection	IP 55 (Protection against dust and water jets)	
Suits	6043 - 6049 and 6008 - 6015	

#### **Activating Switch**

Single direction. Off-on switch. Suits all reversing alarms and buzzers.



## Evacuator Plus Heavy Duty Reversing Alarm

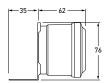
The Evacuator Plus Heavy Duty Reversing and Warning Alarm features a lightweight piezoelectric output circuit.

The reduced weight of just 129 grams makes the Evacuator Plus virtually immune to vibration damage. Unique nickel plated conductive terminal inserts, which provide power to the alarm, are hermetically sealed, giving superior water resistant performance.

The housing is constructed of high impact ABS plastic resin and is environmentally sealed against moisture, dust and corrosion. Evacuator Plus reversing and warning alarms are steam cleanable.









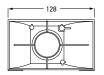
6043	3SL 905 415-001 97dB		
6044	3SL 905 415-011	112dB	
Mounting	Universal mounting comes complete with heavy-gauge plated steel mounting bracket. Can be installed on positive and negative ground vehicles.		
Voltage	6043/6044 - 12-48V DC		
Current Draw	Less than 0.10A		
Frequency	80 signals per minute +/- 20%		
Sound Pressure Level	Part No. 6043 97dB(A) @ 1.2m Part No. 6044 112dB(A) @ 1.2m		
Temperature	Operating range -40°C to 74°C		
Protection	IP 55 (Protection against dust and water jets)		
Compliance	SAE J994		

#### Reversing Alarm

Reactor heavy duty Reversing and Warning Alarm automatically adjusts to changing noise environments. State-of-the-art, solid-state electronics self-adjust to a minimum of 5dB above surrounding noise levels, thus reducing irritation, complaints and hearing impairment.

Reactor alarms feature integral universal mounting brackets and high impact ABS plastic resin housing and are totally environmentally sealed in epoxy to guard against moisture, dirt and vibration.









6047	3SL 905 415-021	82-107dB AUTO
Mounting	Universal mounting brackets	
Voltage	9 - 56V DC (12 - 48V DC Systems)	
Current draw	Less than 0.25A	
Frequency	80 signals per minute. 1.15kHz	
Sound Pressure Level	82 to 107dB(A) @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	



6048	3SL 905 415-031	87-112dB AUTO
Mounting	Universal mounting brackets	
Voltage	9 - 36V DC (12 - 24V DC Systems)	
Current draw	Less than 0.50A	
Frequency	80 signals per minute. 1.15 kHz	
Sound Pressure Level	87 to 112dB(A) @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	

#### Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.





6049	3SL 905 415-041	107/112dB MANUAL
Mounting	Universal mounting brackets	
Voltage	6 - 36V DC (12 - 24V DC Systems)	
Current draw	Less than 0.8A	
Frequency	80 signals per minute. 1.2 kHz	
Sound Pressure Level	107 or 112dB(A) @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	
Reactor alarms comply with SAE J994 requirements and OSHA regulations.		

#### Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.





HMRA087B	3SL 910 644-001		87dB
6051	3SL 012 870-001		92dB
6052	3SL 012 871-001		97dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting		
Voltage	12-24V DC		
Current Draw	Max. 0.5A		
Frequency	White noise/broadband		
Sound Pressure Level	Part No. 6051 92dB(A) @ 1.2m Part No. 6052 97dB(A) @ 1.2m		
Temperature	Operating range -40 to 85°C		
Protection	IP 68 (Protection against dust and water immersion)		
Compliance	SAE J994	(€	

#### **Broadband Reversing Alarm**

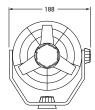
Reversing Alarm with multi-frequency broadband sound.

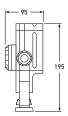


#### Turbo Fan

Turbo Fans provide high capacity at low power consumption. Features include impact resistant housing, low-noise operation and soft plastic impellers, shielded by sturdy protective grille for added safety. Fans can be turned in all directions, and locked in position. Airflow can be regulated by two-stage switch.







6100	8EV 003 361-001	12 VOLT DC
6100-W	8EV 003 361-021 – White	12 VOLI DC
6101	8EV 003 361-011	24 VOLT DC
Power Consumption	6.5W	
Cable Length	Pre-wired with 1.4m of cable	
Min. Service Life	5000 hours (tested under extreme conditions)	

#### **BATTERY BOOSTER CABLES**

#### **Battery Booster Cables**

Durable Battery Booster Lead Set featuring fully-insulated clamps with shunt and 4.0 metres of jumper lead. Copper cross-section



8852	8KA 910 236-011
Maximum Load	500A

#### **Battery Booster Clamps**

Fully-insulated Battery Booster Clamp with shunt featuring chrome-plated finish.

8853	8KX 910 236-021	■ RED
8854	8KX 910 236-001	■ BLACK
Maximum Load	500A	



# 21 600 600 600 600 600 Part No. 8452



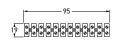


8455	8KV 002 137-001		
8452	8KV 002 139-001		SET OF 12
8453	8KV 002 140-001		SEI UF 12
8454	8KV 002 141-001		
To Suit	8455 8452 8453 8454	Cables up to 2.5mm (0.75mm²) Cables up to 3mm (1.13mm²) Cables up to 4mm (2.90mm²) Cables up to 6mm (4.59mm²)	

#### **Cable Connectors**

Set of 12 Brass Terminals. Flexible plastic.





8455

200000000	2000000	***************************************
8452	8453	8454

Part Numbers	Туре	Quantity	Size	Cable
<b>8206</b> 8KW 905 462-001	BLISTER PACK	Per Pack		
<b>8506</b> 8KW 905 497-001	BULK PACK	100	6.3mm	2.5 to 3mm/0.75 to 1.13mm
<b>8207</b> 8KW 905 464-001	BLISTER PACK	10	6.3mm	4mm/1.84mm²
<b>8507</b> 8KW 905 498-011	BULK PACK	100	0.311111	411111/ 1.04111111
<b>8208</b> 8KW 905 464-011	BLISTER PACK	10	6.3mm	5 to 6mm/2.9 to 4.59mm <sup>2</sup>
<b>8508</b> 8KW 905 498-021	BULK PACK	50	0.511111	5 to 5fffff/ 2.7 to 4.57fffff
PC INSULATED MAI	LE BLADE TERMINALS			
<b>8209</b> 8KW 905 465-001	BLISTER PACK	10	6.3mm	05. 0 /055. 110
<b>8509</b> 8KW 905 498-031	BULK PACK	100		2.5 to 3mm/0.75 to 1.13mm
<b>8218</b> 8KW 905 469-001	BLISTER PACK	10	4.0	4mm/1.84mm²
<b>8518</b> 8KW 905 500-001	BULK PACK	100	6.3mm	4mm/ 1.84mm²
<b>8219</b> 8KW 905 469-011	BLISTER PACK	10	6.3mm	5 to 6mm/2.9 to 4.59mm <sup>2</sup>
<b>8519</b> 8KW 905 500-011	BULK PACK	100	0.311111	3 to 011111/2.7 to 4.3711111
PC INSULATED MAI	LE BULLET TERMINALS	;		
<b>8225</b> 8KW 905 471-001	BLISTER PACK	10		05.0 (055.440.)
<b>8525</b> 8KW 905 504-001	BULK PACK	100	4.0mm	2.5 to 3mm/0.75 to 1.13mm
<b>8526</b> 8KW 905 504-011	BULK PACK	100	5.0mm	4mm/1.84mm <sup>2</sup>
PC FULLY - INSULA	TED FEMALE BULLET 1	TERMINALS		
<b>8227</b> 8KW 905 471-021	BLISTER PACK	10		0.5.0 (5.5.0
<b>8527</b> 8KW 905 504-021	BULK PACK	100	4.0mm	2.5 to 3mm/0.75 to 1.13mm <sup>2</sup>

100

5.0mm

4mm/1.84mm<sup>2</sup>

BULK PACK

8KW 905 504-031

## PC Insulated Double Crimp Terminals



















#### Insulated Double Crimp Terminals/Connectors

























FEMALE BLADE TERMINALS					
Part Numbers	Туре	Quantity Per Pack	Size	Cable	
<b>8200</b> 8KW 905 461-001	BLISTER PACK	18	6.3mm	2.5 to 3mm cable	
<b>8500</b> 8KW 905 496-001	BULK PACK	100	0.3[1][1]	0.75 to 1.13mm² cable	
<b>8201</b> 8KW 905 461-011	BLISTER PACK	14	6.3mm	4mm cable.	
<b>8501</b> 8KW 905 496-011	BULK PACK	100	0.311111	1.84mm² cable	
<b>8202</b> 8KW 905 461-021	BLISTER PACK	12	6.3mm		
<b>8502</b> 8KW 905 496-021	BULK PACK	50	0.3[1][1]	5 to 6mm cable	
<b>8203</b> 8KW 905 461-031	BLISTER PACK	10	0.5	2.9 to 4.59mm² cable	
<b>8503</b> 8KW 905 496-031	BULK PACK	50	9.5mm		

FULLY INSULATED FEMALE BLADE TERMINALS					
<b>8204</b> 8KW 905 461-041	BLISTER PACK	10	6.3mm	2.5 to 3mm cable 0.75 to 1.13mm² cable	
<b>8504</b> 8KW 905 496-041	BULK PACK	100			
<b>8205</b> 8KW 905 461-051	BLISTER PACK	10	6.3mm	4mm cable. 1.84mm² cable	
<b>8505</b> 8KW 905 496-051	BULK PACK	100			

2-WAY MALE AND FEMALE BLADE TERMINALS						
<b>8210</b> 8KW 905 466-001	BLISTER PACK	10	6.3mm	2.5 to 3mm cable		
<b>8510</b> 8KW 905 498-041	BULK PACK	100	0.311111	0.75 to 1.13mm <sup>2</sup> cable		
<b>8211</b> 8KW 905 466-011	BLISTER PACK	10	6.3mm			
<b>8511</b> 8KW 905 498-051	BULK PACK	100	0.311111	4mm cable.		
<b>8212</b> 8KW 905 466-031	BLISTER PACK	19	/ 20000	1.84mm² cable		
<b>8512</b> 8KW 905 498-061	BULK PACK	100	6.3mm			

MALE BLADE TERMI	NALS			
<b>8213</b> 8KW 905 467-001	BLISTER PACK	14	6.3mm	2.5 to 3mm cable
<b>8513</b> 8KW 905 499-001	BULK PACK	100	0.311111	0.75 to 1.13mm² cable
<b>8214</b> 8KW 905 467-011	BLISTER PACK	14	6.3mm	4mm cable.
<b>8514</b> 8KW 905 499-011	BULK PACK	100	0.311111	1.84mm² cable
<b>8215</b> 8KW 905 467-021	BLISTER PACK	11	/ 200.00	5 to 6mm cable
<b>8515</b> 8KW 905 499-021	BULK PACK	100	6.3mm	2.9 to 4.59mm <sup>2</sup> cable

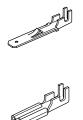
#### **Insulated Double Crimp** PUSH-ON FEMALE TERMINALS Terminals/Connectors Quantity Part Numbers Size Cable Type Per Pack MALE BULLET CONNECTORS 8220 **BLISTER PACK** 14 2.5 to 3mm cable 0.75 to 1.13mm<sup>2</sup> cable 8520 **BULK PACK** 100 8221 **BLISTER PACK** 14 4mm cable. 1.84mm<sup>2</sup> cable 8521 **BULK PACK** 100 8KW 905 503-001 FEMALE BULLET CONNECTORS 12 **BLISTER PACK** 8KW 905 470-021 2.5 to 3mm cable 0.75 to 1.13mm<sup>2</sup> cable 8522 **BULK PACK** 100 8KW 905 503-011 8223 **BLISTER PACK** 11 8KW 905 470-031 4mm cable. 1.84mm<sup>2</sup> cable 8523 **BULK PACK** 100 8KW 905 503-021

DOUBLE MALE BLADE CONNECTORS					
<b>8216</b> 8KW 905 468-001	BLISTER PACK	9	6.3mm	N/A	
<b>8516</b> 8KW 905 499-031	BULK PACK	50	6.3mm	N/A	



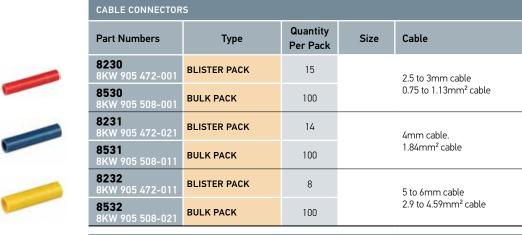
MALE BLADE TERMINALS					
Part Numbers	Туре	Quantity Per Pack	Size	Cable	
<b>8570</b> 8KW 905 512-001	BULK PACK	100	2.8mm	2.5 to 3mm cable 0.75 to 1.13mm² cable	
<b>8571</b> 8KW 905 512-011	BULK PACK	100	6.3mm	4mm/1.84mm²	
FEMALE BLADE TERMINALS					
<b>8572</b> 8KW 905 512-021	BULK PACK	100	2.8mm	2.5 to 3mm cable 0.75 to 1.13mm² cable	
<b>8573</b> 8KW 905 512-031	BULK PACK	100	6.3mm	4mm/1.84mm²	
EYE TERMINALS					
<b>8574</b> 8KW 905 512-041	BULK PACK	100	4.3mm	2.5 to 3mm cable 0.75 to 1.13mm² cable	
<b>8575</b> 8KW 905 513-001	BULK PACK	100	5.0mm	4mm/1.84mm²	
<b>8576</b> 8KW 905 513-011	BULK PACK	100	6.3mm	2.5 to 4mm cable. 0.75 to 1.84mm² cable	
<b>8577</b> 8KW 905 513-021	BULK PACK	100	8.4mm	2.5 to 4mm cable. 0.75 to 1.84mm² cable	
·				·	

#### Non-Insulated Crimp Terminals









QUICK CONNECT CA	BLE CONNECTORS	
<b>8235</b> 8KW 950 034-001	BLISTER PACK	6
<b>8535</b> 8KW 950 034-002	BULK PACK	25

With the use of pliers, connects splices and insulates 0.75 to 1.13mm<sup>2</sup> (2.5 to 3mm) cable.

	EYE TERMINALS				
	<b>8236</b> 8KW 905 474-001	BLISTER PACK	25	4.3mm	4mm cable.
	<b>8536</b> 8KW 905 509-001	BULK PACK	100	4.3111111	1.84mm² cable
	<b>8237</b> 8KW 905 475-001	BLISTER PACK	12	9.5mm	4mm cable.
	<b>8537</b> 8KW 905 509-011	BULK PACK	100	7.5mm	1.84mm² cable
	<b>8240</b> 8KW 905 476-001	BLISTER PACK	25	4.3mm	
0	<b>8540</b> 8KW 905 510-001	BULK PACK	100	4.3111111	
	<b>8241</b> 8KW 905 476-061	BLISTER PACK	25	5mm	2.5 to 3mm cable
0	<b>8541</b> 8KW 905 510-011	BULK PACK	100	JIIIII	0.75 to 1.13mm² cable
	<b>8242</b> 8KW 905 476-011	BLISTER PACK	16	/ 2	
0	<b>8542</b> 8KW 905 510-021	BULK PACK	100	6.3mm	
	<b>8243</b> 8KW 905 476-021	BLISTER PACK	25	5mm	
0	<b>8543</b> 8KW 905 510-031	BULK PACK	100	JIIIII	
	<b>8244</b> 8KW 905 476-031	BLISTER PACK	20	6.3mm	4mm cable.
0	<b>8544</b> 8KW 905 510-041	BULK PACK	100	0.311111	1.84mm² cable
	<b>8245</b> 8KW 905 476-041	BLISTER PACK	14	8.4mm	
0	<b>8545</b> 8KW 905 510-051	BULK PACK	100	0.411111	



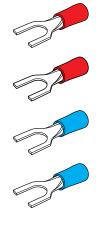
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EYE TERMINALS				
<b>8246</b> 8KW 905 476-051	BLISTER PACK	12	6.3mm 50 12	
<b>8546</b> 8KW 905 510-061	BULK PACK	50		
<b>8247</b> 8KW 905 476-101	BLISTER PACK	12		5 to 6mm cable
<b>8547</b> 8KW 905 510-071	BULK PACK	50	0.4[1][1]	
<b>8248</b> 8KW 905 476-071	BLISTER PACK	10		2.9 to 4.59mm² cable
<b>8548</b> 8KW 905 510-081	BULK PACK	50	9.5mm	
<b>8249</b> 8KW 905 476-081	BLISTER PACK	17	Enom	-
<b>8549</b> 8KW 905 511-001	BULK PACK	50	5mm	



SPADE TERMINALS				
Part Numbers	Туре	Quantity Per Pack	Size	Cable
<b>8260</b> 8KW 905 476-091	BLISTER PACK	21	/ 2	2.5 to 3mm cable
<b>8560</b> 8KW 905 511-011	BULK PACK	100	4.3mm	0.75 to 1.13mm² cable
<b>8261</b> 8KW 905 477-001	BLISTER PACK	21	5 0mm	2.5 to 3mm cable
<b>8561</b> 8KW 905 511-021	BULK PACK	100		0.75 to 1.13mm² cable
<b>8262</b> 8KW 905 477-011	BLISTER PACK	20	/ 2	4mm cable.
<b>8562</b> 8KW 905 511-031	BULK PACK	100	4.3mm	1.84mm² cable
<b>8263</b> 8KW 905 477-021	BLISTER PACK	21	F 0	4mm cable.
<b>8563</b> 8KW 905 511-041	BULK PACK	100	5.0mm	1.84mm² cable

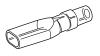
#### Insulated Crimp Terminals/Connectors



FEMALE TERMINAL INSULATORS				
Part Numbers	Туре	Quantity Per Pack	Size	Suits
<b>8578</b> 8KX 905 513-031	BULK PACK	100	2.8mm	Part No. 8572
<b>8579</b> 8KX 905 515-001	BULK PACK	50	6.3mm	Part No. 8573

MALE/FEMALE TERMINAL INSULATORS				
Part Numbers	Туре	Quantity Per Pack	Size	Cable
<b>8580</b> 8KX 905 516-001	BULK PACK	100	6.3mm	Male bade and push-on Female (may be used to enclose crimp section of all types)

#### **PVC Terminal Insulators**





#### Handy Box® Service Kits

The Handy Box® Service Kit Complete Set contains all four Handy Box® Kits – Heat Shrink Kit, DT Connector Kit, Blade Fuse Kit and Crimp Terminal Kit. All parts in the kits are available as spares.

HM8291	9XX 910 121-101	HANDY BOX® SERVICE KIT COMPLETE SET
HM8296	9XX 011 959-001	HANDY BOX® CARRY CASE (EMPTY)



#### Handy Box® Heat Shrink Kit

The Handy Box® Heat Shrink Kit contains 576 Heat Shrink tubes of various diameters and length. All parts in the kit are available as spares.



HM8293	9MJ 178 4	58-821	HANDY BOX® HEAT SHRINK KIT
Replacement Parts	9.HM4810	Heat Shrink Tubing	3 Colours 1,25 9MJ
	9.HM4811	Heat Shrink Tubing	BK/TR 1,250 9MJ
	9.HM4812	Heat Shrink Tubing	3-COLOUR 1,650 9MJ
	9.HM4813	Heat Shrink Tubing	BK/TR 1,650 9MJ
	9.HM4814	Heat Shrink Tubing	3-COLOUR 2,450 9MJ
	9.HM4815	Heat Shrink Tubing	BK/TR 2,450 9MJ
	9.HM4816	Heat Shrink Tubing	3-COLOUR 3,250 9MJ
	9.HM4817	Heat Shrink Tubing	BK/TR 3,250 9MJ
	9.HM4818	Heat Shrink Tubing	5-COLOUR 4,8-100 9MJ
	9.HM4819	Heat Shrink Tubing	5-COLOUR 6,2-100 9MJ
	9.HM4820	Heat Shrink Tubing	BK/TR 9,5-100 9MJ
	9.HM4821	Heat Shrink Tubing	5-COLOUR 4,8-200 9MJ
	9.HM4822	Heat Shrink Tubing	BK 9,5/12,7-200 9MJ

#### Handy Box® DT Connector Kit

The Handy Box® DT Connector Kit contains 258 of the most popular DT Connectors including tools. All parts in the kit are available as spares.



HM8292	8KW 910 1	19-101	НА	NDY BOX® DT CONNECTOR KIT
Replacement Parts	9.HM4940G	2 Pin DT Plug Set		(Pack of 10)
	9.HM4941G	2 Pin DT Receptacle	Set	(Pack of 10)
	9.HM4942G	3 Pin DT Plug Set		(Pack of 10)
	9.HM4943G	3 Pin DT Receptacle	Set	(Pack of 10)
	9.HM4946G	6 Pin DT Plug Set		(Pack of 8)
	9.HM4947G	6 Pin DT Receptacle	Set	(Pack of 8)

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#### HM8294 HANDY BOX® BLADE FUSE KIT Contents Flat Fuse Insert 2A 8JS Flat Fuse Insert 3A 8JS Flat Fuse Insert 4A 8JS Flat Fuse Insert 5A 8JS Flat Fuse Insert 7,5A 8JS Flat Fuse Insert 10A 8JS Flat Fuse Insert 15A 8JS Flat Fuse Insert 20A 8JS Flat Fuse Insert 25A 8JS Flat Fuse Insert 30A 8JS Flat Fuse Insert 2A 8JS Fuse-Link 3A 8JS Flat Fuse Insert 4A 8JS Flat Fuse Insert 5A Fivefold 8JS Flat Fuse Insert 7,5A 8JS Flat Fuse Insert 10A 8JS 8 JS Fuse-Link Flat Fuse Insert 20A 8JS Flat Fuse Insert 25A 8JS 30A 8JS Fuse Insert Flat Fuse Insert 40A 8JS

#### Handy Box® Blade Fuse Kit

The Handy Box® Blade Fuse Kit contains 475 of the most popular amperage and blade fuse sizes. All parts in the kit are available as spares.



#### HM8295 HANDY BOX® CRIMP TERMINAL KIT Contents Flat Fuse Insert 2A 8JS Cable Shoe 4-1 8KW 5-1 8KW Cable Shoe Flat Receptacle Female 8KW Flat Terminal 6,3 8KW Round Plug 4 8KW Cable Shoe 5-2,5 8KW Flat Receptacle Female 6,3 8KW Cable Shoe 4-2,5 8KW Cable Shoe 5-2,5 8KW Cable Lug Shoe 6-2,5 574-99 8KW Joint Connector 8KW Flat Terminal 6,3 8KW Flat Terminal 6,3 8KW Circular Socket D4 8KW Flat Terminal (Female) Receptacle 8KW Flat Terminal (Female) Receptacle 8KW Cable Shoe 8KW Cable Shoe 8KW 8KW Connector, Insulating Splice 8KV Crimping Tool

#### Handy Box® Crimp Terminal Kit

The Handy Box® Crimp Terminal Kit contains 401 of the most popular terminals and connectors and a crimp terminals tool. All parts in the kit are available as spares.



8280

8281

#### **Insulated Terminal Assortment**

Pack of 16 and 29 popular HELLA connectors/terminals.





Part No 8281

#### Garage/Auto Electrical Assortment Kit - 188 Piece

Assortment containing 12 complete packs of HELLA connectors/terminals specifically designed to meet the requirements of the automotive industry.



8282	8KW 905 487-0	8KW 905 487-001		
Contents	A quantity of 12 co	omplete packs.		
	Part Numbers	Description	Quantity	
	8200	Female blade terminal	18	
-	8201	Female blade terminal	14	
	8202	Female blade terminal	12	
	8203	Female blade terminal	10	
	8210	2-way male and female blade terminal	10	
	8211	2-way male and female blade terminal	10	
	8230	Cable connector	15	
	8231	Cable connector	14	
	8232	Cable connector	8	
-	8241	Eye terminal	25	
	8244	Eye terminal	20	
	8247	Eye terminal	12	

PACK OF 16

PACK OF 29

#### Insulated Terminal and Connector Kit - 1025 Piece

This Professional Assortment containing 1025 HELLA Connectors/Terminals and a Ratchet Crimping Tool Part No. 8273, is designed to meet the requirements of the automotive industry. Includes a quantity of 20 complete packs.



8284	8KW 905 489-0	01			
Contents	20 types of HELLA	20 types of HELLA connectors/terminals.			
	Part Numbers	Description	Quantity		
	8200	Female blade terminal	100		
	8201	Female blade terminal	100		
	8202	Female blade terminal	50		
	8204	Fully Insulated female blade terminal	50		
-	8205	Female blade terminal	50		
	8213	Male blade terminal	50		
_	8214	Male blade terminal	50		
	8220	Male bullet connector	50		
	8221	Male bullet connector	50		
	8222	Male bullet connector	50		
	8223	Female bullet connector	50		
	8230	Female bullet connector	50		
	8231	Cable connector	50		
	8232	Cable connector	50		
	8241	Eye terminal	50		
	8243	Eye terminal	50		
	8244	Eye terminal	50		
	8246	Eye terminal	25		
	8247	Eye terminal	25		
	8248	Eye terminal	25		

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#### 8PE 014 032-001 - 'MCP 2.8' Style Crimps

#### 8PE 014 032-011 - 'VKS-Plus' Style Terminals

These OE Quality Crimping Tools are recommended for proper crimping. Crimping heads may be exchanged with heads for different crimp styles.



#### 8272

#### 8PE 905 478-021 - Insulated Terminals

Spring return hand grips. Cuts and strips insulation from cable measuring 2.5-6mm in diameter (0.75-6mm²). Crimps all popular insulated and non-insulated terminals. Cuts bolts with metric threads M2.6, M3, M3.5, M4, M5.



#### 8273

#### 8PE 905 479-001 - Insulated Terminals

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for insulated terminals.



#### 8274

#### 8PE 905 479-021 - Non-Insulated Terminals

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for open barrel non-insulated terminals.



#### HM8275

#### 8PE 980 837-001 - DT Terminals

Specially designed crimping tool with multiple jaws for an even crimp of DT terminals. See page 408 for DT connectors.



#### HM8277

#### 8PE 910 118-011 - DT Contacts

DT Contact Crimping Tool - 0.5 - 1.0mm



#### HM8298

#### 8PE 980 838-001 - Superseal Terminals

Crimping tool designed for use with Superseal connector terminals. See page 344 for superseal connectors.



#### 8283

#### 8KW 905 488-001 - Handyman Crimp Kit

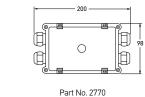
Especially designed for the handyman and hobbyist, this kit contains a useful crimping tool that cuts cable, strips cable insulation and crimps all popular insulated terminals. Comes complete with an assortment of 29 popular HELLA connectors and terminals.

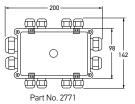


#### Cable Junction Box

Compact cable Junction Box with the option of 4 or 12 inlet/outlets, and outer cable size from Ø10mm to Ø17mm. Complete with connecting cartridge allowing 14 separate groups of connections (6 x 8-way and 8 x 4-way) all using 6.3mm flat blade connectors. The heavy duty nylon housing will withstand common lubricants found underneath truck and trailers, and is safe to clean with high pressure washing equipment.









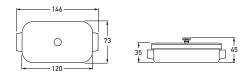
2770	8KV 177 785-011		4 OUTLETS
2771	8KV 177 785-001		12 OUTLETS
Fittings	2770 2771	4 x Ø13mm 1 × Ø17mm + 3 × Ø13mm + 8 × Ø10mm	
Protection	IP 69K (Protection against dust and high pressure/steam jet cleaning)		
Plug Cartridge	14 separate connection groups.		



#### Cable Junction Box

8 screw connections.



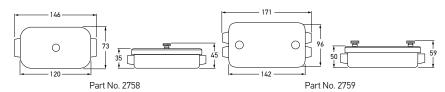


2757	8KV 002 143-032
Cable	Suitable for medium cable up to 6mm² cross-sectional area.

#### Cable Junction Box

8 pole, 8 double flat plug connection.

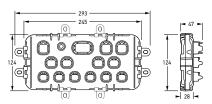


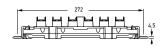


2758	8KV 002 145-002	2
2759	8KV 004 259-031	
To Suit	2758 2759	Suitable for medium cable up to 6mm² cross-sectional area. Suitable for heavy cable up to 10mm² cross-sectional area.



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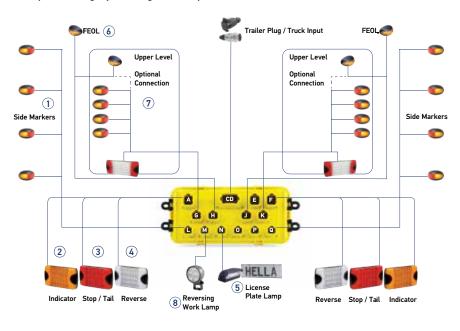
<b>8JE 233 496-001</b> – LED Lamp Distribution Box		
Rated Voltage	12/24V DC Powered Vehicles	
Operating Temperature	-40° to 50° Celsius	
Lamp Connections (DT Type Sockets)	Input: 12-Pole Output: 3x 6-Pole (2x Stop/Tail/Indicator/Reverse, 1x Aux/Reverse) 4x 4-Pole (2x Front Outline, 2x Stop/Tail/Indicator) 6x 2-Pole (2x Side Marker, 1x each of Reverse, License Plate, Rear Fog and Aux.)	
Max Power / Current	1.3 A @ 50°C Ambient Temp. (Per output pin) 13A Total for entire unit	
Protection	IP 6K7 and IP 6K9K	
Overload Protection Type	Internal thermal Contact, self resetting	

#### **LED Lamp Distribution Box**

HELLA's revolutionary LED Lamp Distribution Box is the quick connect, easy trouble shooting solution for fitting LED lamps to heavy trailers and custom vehicles. The LED Lamp Distribution Box is designed with integrated DT type connector sockets that provide easy and reliable lamp connection. Internal electronics protect and isolate individual circuits and reduce lamp outage to ensure a long life and reliable lamp operation. A completely sealed housing and durable materials provide protection against water, dust and high pressure/steam jet cleaning.



#### Example of Wiring layout using LED Lamp Distribution Box





LED Lamp Distribution box, connectors populated

#### Self-Amalgamating Loom Tape

Polyethylene self-amalgamating loom tape ideal for waterproof sealing of electrical connections, temporary repair and sealing of plumbing joints. Also suitable for emergency repair of radiators, engine hoses and auto electrics. Easy to unwind and resistant to water, ozone, UV and a wide range of chemicals including alkalis, hydraulic fluids and vegetable oils.

HMAT85	9MJ 910 147-001 – (Pack of 4)
Voltage	34kV/mm
Elongation	600%
Temperature Range	-35°C to 130°C
Size	Tape Thickness 0.5mm – tensile strength at break 12N/cm.



#### **PVC Electrical Insulation Tape** - Black

Flame-retardant PVC Electrical Insulation Tape, complying with British standards BS3924 31/90Tp, BS3J10, BS3887 (1985) Part 2 Category 1 and IEC 454-3-1.



9MJ 905 490-001	10m	■ BLACK	18MM X 10M
9MJ 905 490-021	20m	■ BLACK	18MM X 20M
8.0kV (1 minute proof test 6.0	lkV)		
Less than 2m S/m			
107 megohms			
Rapid Breakdown			
Tape Thickness 0.145mm – tensile strength a	it break 26N/cm		
	9MJ 905 490-021  8.0kV (1 minute proof test 6.0  Less than 2m S/m  107 megohms  Rapid Breakdown  Tape Thickness	9MJ 905 490-021  8.0kV (1 minute proof test 6.0kV)  Less than 2m S/m  107 megohms  Rapid Breakdown	9MJ 905 490-021 20m ■ BLACK  8.0kV (1 minute proof test 6.0kV)  Less than 2m S/m  107 megohms  Rapid Breakdown  Tape Thickness

#### **PVC Electrical Insulation Tape** - Red

Flame-retardant PVC Electrical Insulation Tape, complying with British standards BS3924 31/90Tp, BS3J10, BS3887 (1985) Part 2 Category 1 and IEC 454-3-1.



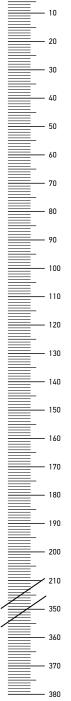
8321	9MJ 905 490-011	10m	■ RED	18MM X 10M
8323	9MJ 905 490-031	20m	■ RED	18MM X 20M
Voltage	8.0kV (1 minute proof test 6.0	kV)		
Conductivity	Less than 2m S/m			
Insulation Resistance	107 megohms			
Electrical Properties	Rapid Breakdown			
Size	Tape Thickness 0.145mm – tensile strength a	t break 26N/cm		

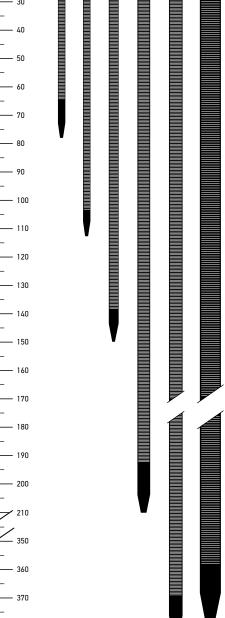
#### Nylon Cable Ties

100 percent 6/6 nylon cable ties. Very flexible locking latch. Bell-mouthed head allows easier threading than previous ties. Strongest possible locking power without damaging the serrations of the tie. Quick fastening and simple locking mechanism. Black ties are UV resistant.

WHITE CABLE TIES		
Quantity 100 Per Pack	Length	Width
<b>8341</b> 8HL 905 491-101	78mm	2.5mm
<b>8342</b> 8HL 905 491-121	103mm	2.5mm
<b>8343</b> 8HL 905 491-141	143mm	3.2mm
<b>8344</b> 8HL 905 491-161	191mm	4.5mm
<b>8345</b> 8HL 905 491-181	368mm	4.8mm
<b>8346</b> 8HL 905 491-202	378mm	7.6mm

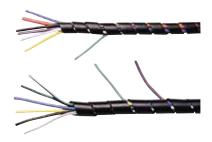
BLACK UV RESISTANT CABLE TIES			
Quantity 10 Per Pack	Quantity 100 Per Pack	Length	Width
-	<b>8341UV</b> 8HL 905 491-111	78mm	2.5mm
-	<b>8342UV</b> 8HL 905 491-131	103mm	2.5mm
<b>8333UV</b> 8HL 905 491-031	<b>8343UV</b> 8HL 905 491-151	143mm	3.2mm
<b>8334UV</b> 8HL 905 491-051	<b>8344UV</b> 8HL 905 491-171	191mm	4.5mm
<b>8335UV</b> 8HL 905 491-071	<b>8345UV</b> 8HL 905 491-191	368mm	4.8mm
<b>8336UV</b> 8HL 905 491-091	<b>8346UV</b> 8HL 905 491-211	378mm	7.6mm





#### Cable Wraps

Manufactured from moisture-resistant black polyethylene. Stable to a temperature of 100°C.



CONVOLUTED SPLIT TUBING				
Part Number	Internal Diameter	Contents Length Wranning Range		
<b>8347</b> 8JR 950 888-001	6mm	1	40	6 to 18mm
<b>8348</b> 8JR 950 888-011	12mm	1	10m	12 to 35mm

Manufactured from black polypropylene. Temperature Range: -20°C to +60°C.



CONVOLUTED SPLIT TUBING			
Part Number	Internal Diameter	Contents	Length
<b>8351</b> 8JR 910 196-071	7	1	10 metres
<b>8356</b> 8JR 910 196-081	7mm		30 metres
<b>8349</b> 8JR 910 196-001	- 10mm	1	10 metres
<b>8357</b> 8JR 910 196-011			30 metres
<b>8350</b> 8JR 910 196-021	13mm	1	10 metres
<b>8358</b> 8JR 910 196-031	ramm	1	30 metres
<b>8352</b> 8JR 910 196-041	16mm	1	10 metres
<b>8353</b> 8JR 910 196-051	20mm	1	10 metres
<b>8355</b> 8JR 910 196-061	25mm	1	3 metres

#### **Heat Shrink Tubing Assortment**

8379	9MJ 905 495-161 – Heat Shrink Tubing		
Content	Diameter	Colour	
	2 x 3.2mm		
	2 x 4.8mm	■ BLACK	
	2 x 6.4mm		
	2 x 3.2mm		
	2 x 4.8mm	■ RED	
	2 x 6.4mm		

Assortment of 12 x 200mm lengths of Heat Shrink Tubing ranging from 3.2mm to 6.4mm diameter.

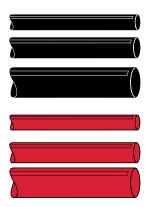


# 8380 9MJ 905 495-171 - Heat Shrink Tubing Content Diameter 2 x 9.5mm 2 x 12.7mm ■ BLACK 2 x 19.0mm 2 x 9.5mm 2 x 12.7mm ■ RED

2 x 19.0mm

#### **Heat Shrink Tubing Assortment**

Assortment of 12 x 200mm lengths of Heat Shrink Tubing ranging from 9.5mm to 19mm diameter.



#### **Heat Shrink Tubing Assortment**



HEAT SHRINK TUBING - ASSORTMENT					
Part Number	Туре	Pre - Shrunk Diameter	Shrunk Diameter	Length	Colour
<b>8361</b> 9MJ 910 188-081 <b>8371</b> 9MJ 910 188-091	BLISTER PACK	2.4mm	1.2mm	1.2m	•
<b>8362</b> 9MJ 910 188-101 <b>8372</b> 9MJ 910 188-111	BLISTER PACK	3.2mm	1.6mm	1.2m	•
<b>8363</b> 9MJ 910 188-121 <b>8373</b> 9MJ 910 188-151	BLISTER PACK	4.8mm	2.4mm	1.2m	•
<b>8364</b> 9MJ 910 188-141 <b>8374</b> 9MJ 910 188-151	BLISTER PACK	6.4mm	3.2mm	1.2m	•
<b>8365</b> 9MJ 910 188-001 <b>8375</b> 9MJ 910 188-011	BLISTER PACK	9.5mm	4.8mm	1.2m	•
<b>8366</b> 9MJ 910 188-021 <b>8376</b> 9MJ 910 188-031	BLISTER PACK	12.7mm	6.4mm	1.2m	•
<b>8367</b> 9MJ 910 188-041 <b>8377</b> 9MJ 910 188-051	BLISTER PACK	19 mm	9.5mm	1.2m	•
<b>8368</b> 9MJ 910 188-061 <b>8378</b> 9MJ 910 188-071	BLISTER PACK	25.4mm	12.7mm	1.2m	•

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#### Cable Stripper/Cutter



# 8275 8PE 905 480-001 Self-adjusting Cable End Stripper and Cutter. Suitable for cables ranging from 1mm² to 6mm² cross-sectional area.

#### **Cable Cutter**

8277	8PE 905 482-001
	High-quality Cable Cutter suitable for copper cable up to 70mm <sup>2</sup> cross- sectional area. Cleanly cuts finely stranded battery and welding cables used in automotive applications. Length of 195mm ensures adequate leverage for ease of cutting.



#### Cable Tie Gun

8278	8PE 905 483-001
	Nylon Tie Tension and Cutting Tool. Suitable for cable ties ranging from 2.2mm to 4.8mm width.



#### Cable Tie Gun - Automatic Cut

8279	8PE 910 002-031
	Durable Nylon Tie Gun with automatic cut-off. Suitable for cable ties ranging from 2.2mm to 4.8mm width.



#### Cable Tie Gun Heavy Duty, Automatic Cut

8299	8PE 910 002-021
	Robust Nylon Cable Tie Gun featuring automatic cut-off and adjustable tension for maximum durability and extended service life. Suitable for heavy-duty cable ties ranging from 3.6mm to 9mm width.



#### Mini Blade Fuses (ATN)

#### - Pack of 10

10 popular Blade Fuses – ideal for the glove box.





8775MINI	8776MINI	8777MINI



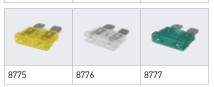
8771MINI	8JS 905 527-011	BLISTER PACK	■ TAN	5A
8772MINI	8JS 905 528-011	BLISTER PACK	■ BROWN	7.5A
8773MINI	8JS 905 529-011	BLISTER PACK	■ RED	10A
8774MINI	8JS 905 531-011	BLISTER PACK	■ BLUE	15A
8775MINI	8JS 905 533-011	BLISTER PACK	YELLOW	20A
8776MINI	8JS 905 534-011	BLISTER PACK	WHITE	25A
8777MINI	8JS 905 535-011	BLISTER PACK	■ GREEN	30A

#### Standard Blade Fuses (ATS)

#### - Pack of 10



8772	8773	8774



	20
19	

8771	8JS 905 527-001	BLISTER PACK	■ TAN	5A
8772	8JS 905 528-001	BLISTER PACK	■ BROWN	7.5A
8773	8JS 905 529-001	BLISTER PACK	■ RED	10A
8774	8JS 905 531-001	BLISTER PACK	■ BLUE	15A
8775	8JS 905 533-001	BLISTER PACK	YELLOW	20A
8776	8JS 905 534-001	BLISTER PACK	WHITE	25A
8777	8JS 905 535-001	BLISTER PACK	■ GREEN	30A

#### Maxi Blade Fuses (ATM)

#### - Single Pack



5	5	
8791	8792	8793

1	A.	1
8794	8796	8795



8790	8JS 905 540-001	BLISTER PACK	■ YELLOW	20A
8791	8JS 905 540-011	BLISTER PACK	■ GREEN	30A
8792	8JS 905 540-021	BLISTER PACK	■ ORANGE	40A
8793	8JS 905 540-031	BLISTER PACK	■ RED	50A
8794	8JS 905 540-041	BLISTER PACK	■ BLUE	60A
8796	8JS 905 540-061	BLISTER PACK	■ BROWN	70A
8795	8JS 905 540-051	BLISTER PACK	WHITE	80A

#### LED Fuse Puller/Tester



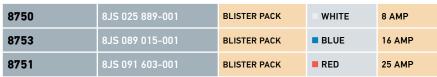
9.HM4993

8PD 910 299-001 - Tool for testing and removal of blade fuses.

#### **FUSES AND CIRCUIT BREAKERS**

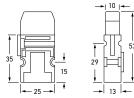


#### Ceramic Fuses - 6AC Pack of 10





#### **FUSE HOLDERS**



8718	8JD 005 235-001
Cable	Suitable for cable up to 2.90mm² cross sectional area

#### Single Blade Fuse Holder

30 Amps maximum. May be interlocked face to face or end to end. Complete with transparent dust cover lid and snap-in terminals.



8719	8JD 905 523-001
Cable	Suitable for cable up to 1.84mm² cross sectional area

#### Single In-line Blade Fuse Holder

20 Amps maximum. Complete with 15A blade fuse. Quick connect type, manufactured by 3M - U.S.A.



### Garage & Auto Electrical Fuse Assortment Kit

100 of the most popular blade and ceramic fuses.



8778	8JS 905 536-0	8JS 905 536-001		
		Colour	Quantities	
Content	8771	■ Tan Blade 5A	10	
	8772	■ Brown Blade 7.5A	10	
	8773	■ Red Blade 10A	10	
	8774	■ Blue Blade 15A	10	
	8775	Yellow Blade 20A	10	
	8776	■ White Blade 25A	10	
	8777	■ Green Blade 30A	10	
	8750	■ White Ceramic 8A	10	
	8751	■ Red Ceramic 25A	10	
	8753	■ Blue Ceramic 16A	10	

### Motorist Mini - Fuse Assortment (ATS) - Pack of 10

10 popular mini blade fuses



8779MINI	8JS 905 537-011	8JS 905 537-011		
		Colour	Quantities	
Content	8771MINI	■ Tan Blade 5A	1	
	8772MINI	■ Brown Blade 7.5A	1	
	8773MINI	■ Red Blade 10A	2	
	8774MINI	■ Blue Blade 15A	2	
	8775MINI	Yellow Blade 20A	2	
	8776MINI	■ White Blade 25A	1	
	8777MINI	■ Green Blade 30A	1	

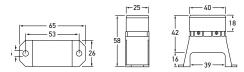
#### Motorist Fuse Assortment (ATS)

#### - Pack of 10

10 popular Blade Fuses – ideal for the glove box.



8779	8JS 905 537-00	8JS 905 537-001		
		Colour	Quantities	
Content	8772	■ Brown Blade 7.5A	1	
	8773	■ Red Blade 10A	2	
	8774	■ Blue Blade 15A	2	
	8775	Yellow Blade 20A	2	
	8776	■ White Blade 25A	2	
	8777	■ Green Blade 30A	1	

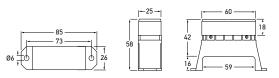


8720	8JD 905 524-001
Number of Fuses	4
Fuse Type	2 x 10A 2 x 15A

#### Blade Fuse Box - 4 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.



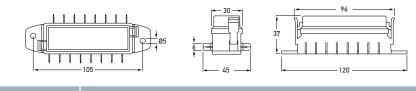


8721	8JD 905 524-011
Number of Fuses	6
Fuse Type	3 x 10A 3 x 15A

#### Blade Fuse Box - 6 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.





8722	8JD 905 524-021
Number of Fuses	8
Fuse Type	4 x 10A 4 x 15A

#### Blade Fuse Box - 8 Fuses

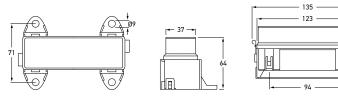
Black plastic housing with transparent snap-fit lid. Flat plug connections.



#### Blade Fuse Box - 16 Fuses

16-way Fuse Box featuring black plastic housing with secondary locks, transparent cover and sealing gasket. Supplied with mounting brackets (male and female).



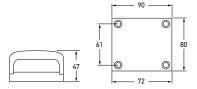


8724	8JD 905 524-031
Number of Fuses	16
Fuse Type	6 x 10A 6 x 15A 2 x 20A 2 X 25A

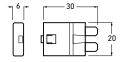
#### Blade Fuse Box - 6 Fuses

Black plastic housing with transparent snap-fit lid and 6.3mm male blade terminals. 6mm diameter stud input. Complete with 2 spare fuse holders and label set.





8725	8JD 005 993-093
Number of Fuses	6
Fuse Type	3 x 10A 3 x 15A

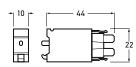


8730	8JS 910 017-051	10 - 28V DC	6A
8731	8JS 910 017-061	10 - 28V DC	8A
8732	8JS 910 017-011	10 - 28V DC	10A
8733	8JS 910 017-021	10 - 28V DC	15A
8734	8JS 910 017-031	10 - 28V DC	20A
8735	8JS 910 017-041	10 - 28V DC	25A
Voltage	Max. 28V DC (Min 10V DC)		
Mounting	Blade Fuse replacement		

#### Manual - Reset Circuit Breakers 28 Volts DC

Miniaturised manual-reset, single-pole thermal Circuit Breaker for automotive fuse block installation as a replacement for standard blade fuses. Designed to suit extralow-voltage wiring systems on all types of vehicles and marine craft.





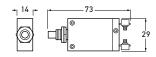
8736	8JS 981 761-001	■ PURPLE	3A
8737	8JS 981 762-001	■ GREEN	6A
8738	8JS 981 757-001	■ RED	10A
8739	8JS 981 758-001	■ BLUE	15A
8740	8JS 981 759-001	YELLOW	20A
8741	8JS 981 760-001	WHITE	25A
Voltage	Max. 28V DC (Min. 10V DC)		

8737	8738	8739	8740	8741

#### Circuit Breakers - Standard Blade Fuse Replacement

Compact single pole, heavy duty thermal circuit breakers with push-to-reset mechanism and separate (colour coded) manual release for extra low voltage wiring systems on all types of vehicles and marine craft. Fitted with blade terminals for plug-in mounting and retaining clips and ribs for increased pull-out force and vibration resistance. Ideal replacement for blade fuses in heavy duty applications.





8742	8JS 910 017-071	10 - 28V DC	10A
8743	8JS 910 017-081	10 - 28V DC	20A
8744	8JS 910 017-091	10 - 28V DC	25A
8745	8JS 910 017-101	10 - 28V DC	30A
8746	8JS 910 017-111	10 - 28V DC	35A
Voltage	Max. 28V DC (Min 10V DC)		
Mounting	Fitted with moulded thread neck (10mm dia.) for panel mounting		

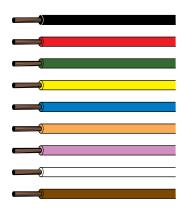
#### Manual - Reset Circuit Breakers 28 Volts DC - Screw Connection

Manual-reset, single-pole thermal Circuit Breaker with push-to-reset mechanism and screw terminals for extra-low-voltage systems.



#### Single Core Automotive Cable

- 3mm



8800	8KL 905 541-001	■ BLACK
8801	8KL 905 541-011	■ RED
8802	8KL 905 541-021	■ GREEN
8803	8KL 905 541-031	YELLOW
8804	8KL 905 541-041	■ BLUE
8805	8KL 905 541-051	ORANGE
8806	8KL 905 541-061	■ VIOLET
8807	8KL 905 541-071	WHITE
8808	8KL 905 541-081	■ BROWN
Cable Diameter	3mm	
Strand No./Dia.	14/0.32mm	
Conductor Cross Section Area	1.13mm²	
Length	30m	

#### Single Core Automotive Cable

- 4mm



8810	8KL 905 541-091	■ BLACK
8811	8KL 905 541-101	■ RED
8812	8KL 905 541-111	■ GREEN
8813	8KL 905 541-121	■ YELLOW
8814	8KL 905 541-131	■ BLUE
8815	8KL 905 541-141	■ ORANGE
8816	8KL 905 541-151	■ VIOLET
8817	8KL 905 541-161	WHITE
8818	8KL 905 541-171	■ BROWN
Cable Diameter	4mm	
Strand No./Dia.	23/0.32mm	
Conductor Cross Section Area	1.84mm²	
Length	30m	

## Single Core Automotive Cable - 5mm

8820	8KL 905 541-181	■ BLACK
8821	8KL 905 541-191	■ RED
8822	8KL 905 541-201	■ GREEN
8823	8KL 905 541-211	YELLOW
Cable Diameter	5mm	
Strand No./Dia.	36/0.32mm	
Conductor Cross Section Area	2.90mm <sup>2</sup>	
Length	30m	



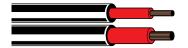
## Single Core Automotive Cable - 6mm

8825	8KL 905 541-221	■ BLACK
8826	8KL 905 541-231	■ RED
Cable Diameter	6mm	
Strand No./Dia.	57/0.32mm	
Conductor Cross Section Area	4.59mm <sup>2</sup>	
Length	30m	



## Single Core Automotive Cable - Double Insulated

8850	8KL 905 547-001		4MM CABLE
8851	8KL 905 547-011		6MM CABLE
Strand No./Dia.	8850 - 23/0.32mm	8851 - 57/0.32mm	
Conductor Cross Section Area	8850 - 1.84mm²	8851 - 4.59mm²	
Length	30m		



#### 2 Core Figure 8 Cable



	<b>8840</b> 8KL 905 544-001	<b>8845</b> 8KL 905 544-011
Cable Diameter	3mm	4mm
Strand No./Dia.	2 x 14/0.32mm	2 x 23/0.32mm
Conductor Cross Section Area	1.13mm²	1.84mm²
Length	30m	30m

#### 2 Core Sheathed Cable



	<b>8846</b> 8KL 905 546-001	<b>8847</b> 8KL 905 546-011	<b>8848</b> 8KL 905 546-021	<b>8849</b> 8KL 905 546-031
Cable Diameter	3mm	4mm	5mm	6mm
Strand No./Dia.	2 x 14/0.32mm	2 x 23/0.32mm	2 x 36/0.32mm	2 x 57/0.32mm
Conductor Cross Section Area	1.13mm²	1.84mm²	2.90mm <sup>2</sup>	4.59mm²
Length	30m			

384

#### 5 Core Cable

8832	8KL 905 542-001
Cable Diameter	2.5mm
Strand No./Dia.	5 x 8/0.32mm
Conductor Cross Section Area	0.64mm²
Length	30m



#### 7 Core Cable

8833	8KL 905 542-011
Cable Diameter	2.5mm
Strand No./Dia.	7 x 8/0.32mm
Conductor Cross Section Area	0.64mm <sup>2</sup>
Length	30m





# HELLA Workshop

High quality inspection lamps and testing equipment designed to meet the needs of discerning do-it-yourself and professional technicians.







# Contents HELLA Workshop

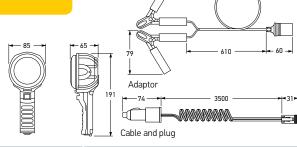
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#### LED Hand Held Spot Lamps

The new LED hand held spot lamp only uses 1/3 of the power consumption of the 1520. It has a compact size and light weight, and is comfortable to hold even for long periods. The LED spot lamp comes with a spiral plug-in cable (which can stretch up to 3.5m) and a DT connector, which allows a custom cable to be fitted to suit your own requirements.



Long Range





1520LED	2XM 958 372-001	LONG RANGE
1521LED	2XM 958 373-001	MEDIUM RANGE
Voltage	10-16V DC	
Power Consumption	35W	
Light Output	1350 lumen	
Compliance	<u>&amp;</u>	

Medium Range





2m high at 5°

120

140





Battery clips to power socket adaptor (Supplied)

80

(Supplied)

## 1 LUX 121m 20 L

60

#### 2m high at 10° 20 l 20 40 60 80 100

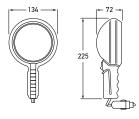
#### Hand Held Spot Lamps

Blue (Part No. 1520) hand held long range spot lamp range. Includes plug, spiral cable (extendable to 2m) and on-off switch. Black (Part No. 1524) hand held long range spot lamp range. Includes plug, spiral cable (extendable to 2m) and momentary pressure contact on-off switch.

20

40





100



LONG RANGE HAND HELD SPOT LAMP					
1520	2XM 905 113-001 – (On-Off Switch)				
1524	2XM 910 343-001 – (On-Off Momentary Switch) BLACK				
Voltage	12V sealed beam included				
Power Consumption	100W				
Spare Parts	1089 (IM4 905 805-001) Sealed beam 9.1520.06 (6EH 905 808-001) Switch - on-off 9.1524.06 (IM4 910 333-002) Switch - momentary 9.1520.07 (8KA 951 191-001) Plug and 2m extendable sheathed cable				



# 7013 8PD 003 798-001 Globe to Suit 24V - M243 (8GM 002 094-242) Suits 6, 12 and 24V applications

#### **Circuit Tester**

Circuit Tester for quick fault tracing in vehicle electrical systems. Sturdy metal construction with screw-off cap and testing needle.



7022	8PD 004 834-001				12 VOLT
Voltage	0-16V DC				
Dwell	4 cyl - 30°-90°	6 cyl - 0°-6	0°	8 cyl - Use 4 cyl >	¢ 0.5
RPM	4 cyl - 0-2400	6 cyl - 0-16	00	8 cyl - Use 4 cyl >	¢ 0.5
Timing	Ignition timing and ac	dvance function	on		
Spare Parts	9.7023.01 (8PD 950 8 9.7022.02 (8PD 905 6		Xenon Fla Inductive	sh Tube ① Clamp ②	

#### Timing Light/Analyser

Timing Light/Analyser for all 4, 5, 6 and 8-cylinder engines with stroboscope, dwell-angle meter, rev-counter and voltmeter with voltage tester (0-16V). Enables adjustment timing whilst simultaneously measuring the engine speed. Features corrosion and impact resistant housing and inductive clamp. Suitable for 12V DC electrical systems with standard or transistorised ignition.





7023	8PD 004 835-001		12 VOLT
Spare Parts	9.7023.01 (8PD 950 881-021) 9.7022.02 (8PD 950 881-021)	Xenon Flash Tube 1 Inductive Clamp 2	

1 9.7023.01	2 9.7022.02	Assembled view

#### **Timing Light**

Timing Light with stroboscope for precise timing adjustment of all petrol engines. Features corrosion and impact resistant housing and inductive clamp.



#### **Compression Tester**

For spark-plug holes of either 14 or 18mm diameter. Diagnosing different cylinder compression values early enough prevents possible later engine damage.

7026	8PD 004 838-001
Test Range	0-21 bar (0-300psi)



#### **Battery Acid Tester**

Handy and robust instrument for professional measurement of the battery charge and acid density in lead batteries. A new suction system design prevents bubbles from forming and keeps the liquid to be tested from flowing back. The precision measuring unit can be rotated 360° allowing measurement regardless of the position of the unit.

Hydro Hydro	

7036	8PD 006 541-001
Measuring Tolerance	Less than +/-1%

#### **Anti-Freeze Tester**

Professional Tester for measuring the freezing point of the water in automobile cooling systems. The new suction system design prevents bubbles from forming and keeps water from flowing back.



 7037
 8PD 006 542-001

 Measuring Tolerance
 Less than +/-1%.

Does not measure Glycol concentration. Measures freezing point depression of Glycol-based coolant.

info.au@hella.com

# **7039** 8PD 006 535-001 Test Range 0-4 bars (0-56psi)

#### Tyre Pressure Gauge - Chrome

Tough all-metal chrome-plated housing, with pressure-release valve. Easy-to-read scale in bars and psi. Supplied with sturdy protective case.



7050	8ET 950 833-001
Face Diameter	60mm
Mounting	52mm dia. opening

#### **Hour Meter**

Visual mechanism to indicate operation. Quick and easy to mount with attached metal bracket. Suitable for 12V to 60V DC (24MA).





# **Automotive Globes**

HELLA's automotive globes are renowned for their uncompromising adherence to the highest quality and safety standards.







# Contents

## **Automotive Globes**

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# AUTOMOTIVE GLOBES

## QUICK REFERENCE GLOBE GUIDE



#### XENON GAS DISCHARGE GLOBES



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#### XENON WHITE ULTRA-BLUE - WHITER (UP TO 4200°K)

These globes come close to emulating the colour of a Xenon HID lamp. The high colour temperature of the Cool Blue globes creates the crisp white light which provides illumination that is conspicuous while being easy on the eye

GRADE GLOBES								
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty	Page
	H1	H1XWUBLUEDP2	ADR COMPLIANCE	12V	55W	P14.5s	Twin	398
()	Н3	H3XWUBLUEDP2	ADR COMPLIANCE	12V	55W	PK22s	Twin	400
	Н4	H4XWUBLUEDP2	ADR COMPLIANCE	12V	60/55W	P43t	Twin	401
<b>M</b> erci	НВ3	HB3XWUBLUEDP2	ADR COMPLIANCE	12V	60W	P20d	Twin	402
	HB4	HB4XWUBLUEDP2	ADR COMPLIANCE	12V	51W	P22d	Twin	403
	H7	H7XWUBLUEDP2	ADR COMPLIANCE	12V	55W	PX26d	Twin	404
A Comment	Н9	H9XWUBLUEDP2	ADR COMPLIANCE	12V	55W	PX26d	Twin	405
A STATE OF THE PARTY OF THE PAR	H11	H11XWUBLUEDP2	ADR COMPLIANCE	12V	55W	PX26d	Twin	405
-	T4W	HLB124BL2	ADR COMPLIANCE	12V	4W	BA9s	Twin	408
	W5W	WBQ125BL2	ADR COMPLIANCE	12V	5W	W2.1x9.5d	Twin	416

## PLUS100 LONGLIFE - UP TO 2.5 TIMES THE LIFETIME AND 100% GREATER ILLUMINATION.



A new generation of high performance Halogen Globes specifically designed to cope with the extreme demands of 24-volt heavy-duty commercial transport applications. The advanced single-coil filament technology is highly vibration resistant and up to 100% brighter than normal, typically extending useful illumination of the road by 20 metres and delivering double the service life of standard globes.

UPGRADE GLOBES									
Globe	Category	Part Number		Voltage	Power Consumption	Base	*Rated L	ife T <sub>c (Hrs)</sub>	Page
-	Н1	C2470LTS	ADR COMPLIANCE	24V	70W	P14.5s	LONGLIFE 1200	STANDARD 650	398
()	Н3	YC2470LTS	ADR COMPLIANCE	24V	70W	PK22s	LONGLIFE 1200	STANDARD 650	400
4	H4	XD2475/70LTS	ADR COMPLIANCE	24V	75/70W	P43t	LONGLIFE 1400	STANDARD 700	401
	H7	CA2470LTS	ADR COMPLIANCE	24V	70W	PX26d	LONGLIFE 1000	STANDARD 550	404



**24V** 

#### LONGLIFE (LL) - UP TO TWICE THE LIFE

LongLife (LL) globes are increasing in popularity for applications such as taxis and drivers using headlamps during the day. Many new vehicles now come equipped with LongLife globes as a standard fitment. The globes will provide safe and legal light performance and can be rated at twice or greater the service life of standard globes.

JPGRADE GLOBES	5								
Globe	Category	Part Number		Voltage	Power Consumption	Base	*Rated L	ife Tc (Hrs)	Page
V LONGLIFE GLO	BES								
	H1	C1255LL	ADR COMPLIANCE	12V	55W	P14.5s	LONGLIFE 1250	STANDARD 400	398
-	H1	H1-LLDP2	ADR COMPLIANCE	12V	55W	P14.5s	LONGLIFE 1250	STANDARD 400	398
	Н3	YC1255LL	ADR COMPLIANCE	12V	55W	PK22s	LONGLIFE 1500	STANDARD 450	400
	Н3	H3-LLDP2	ADR COMPLIANCE	12V	55W	PK22s	LONGLIFE 1500	STANDARD 450	400
<b>A</b>	H4	XD1260/55LL	ADR COMPLIANCE	12V	60/55W	P43t	LONGLIFE 1500	STANDARD 700	401
<b>4</b>	H4	H4-LLDP2	ADR COMPLIANCE	12V	60/55W	P43t	LONGLIFE 1500	STANDARD 700	401
A Comment	HB3	HB3-LLDP2	ADR COMPLIANCE	12V	60W	P20d	LONGLIFE 1500	STANDARD 700	402
<b>M</b> ines	HB4	HB4-LLDP2	ADR COMPLANCE	12V	51W	P22d	LONGLIFE 1500	STANDARD 700	403
	HB5	CC1265/55LL	SAE COMPLIANCE	12V	65/55W	PX29t	LONGLIFE 1500	STANDARD 700	403
	H7	CA1255LL	ADR COMPLANCE	12V	55W	PX26d	LONGLIFE 930	STANDARD 550	404
	H7	H7-LLDP2	ADR COMPLIANCE	12V	55W	PX26d	LONGLIFE 930	STANDARD 550	404
All and	Н9	H9-LLDP2	ADR COMPLIANCE	12V	65W	PGJ19-5	LONGLIFE 650	STANDARD 500	405
	H11	H11-LLDP2	ADR COMPLIANCE	12V	55W	PGJ19-2	LONGLIFE 1800	STANDARD 580	405
	R5W	G125LL	ADR COMPLIANCE	12V	5W	BA15s	LONGLIFE 1500	STANDARD 300	411
	R10W	G1210LL	ADR COMPLIANCE	12V	10W	BA15s	LONGLIFE 500	STANDARD 300	411
	PY21W	RY1221LL	ADR COMPLIANCE	12V	21W	BAU15s	LONGLIFE 2400	STANDARD 450	412
-3	P21W	R1221LL	ADR COMPLANCE	12V	21W	BA15s	LONGLIFE 1000	STANDARD 320	412
	P21/5W	S1221/5VLL	ADR COMPLIANCE	12V	21/5W	BAY15d	LONGLIFE *800	STANDARD *320	413
\$11 <b>3</b>	W5W	W125LL	ADR COMPLIANCE	12V	5W	W2.1x9.5d	LONGLIFE 2000	STANDARD 700	416
4V LONGLIFE GLO	BES								
-	H1	H1-LL-24VDP2	ADR COMPLIANCE	24V	70W	P14.5s	LONGLIFE 1250	STANDARD 400	398
Q.	H3	H3-LL-24VDP2	ADR COMPLIANCE	24V	70W	PK22s	LONGLIFE 1500	STANDARD 450	400
a(b=+	H4	XD2475/70LL	ADR COMPLIANCE	24V	75/70W	P43t	LONGLIFE 1500	STANDARD 700	40
<b>₫</b> ∰:••	H4	H4-LL-24VDP2	ADR COMPLANCE	24V	75/70W	P43t	LONGLIFE 1500	STANDARD 700	401
	H7	H7-LL-24VDP2	ADR COMPLANCE	24V	70W	PX26d	LONGLIFE 930	STANDARD 550	404
	T4W	HL244LL	ADR COMPLIANCE	24V	4W	BA9s	LONGLIFE 1000	STANDARD 350	40
	R5W	G245LL	ADR COMPLIANCE	24V	5W	BA15s	LONGLIFE 1000	STANDARD 225	41
	R10W	G2410LL	ADR COMPLIANCE	24V	10W	BA15s	LONGLIFE 1000	STANDARD 225	41
	PY21W	RY2421LL	Compliance ADR COMPLIANCE	24V	21W	BAU15s	LONGLIFE 500	STANDARD N/A	412
	P21W	R2421LL	ADR COMPLIANCE	24V	21W	BA15s	LONGLIFE 1000	STANDARD 160	412



#### PLATINUM WHITE-PLUS 100 - UP TO + 100% BRIGHTER

Plus 100 globes are the ideal globes for drivers looking to increase safety with more light on the road. This halogen globe produces up to 100% more light on the road, has a beam that is up to 25 metres longer and provides light that is up to 10% whiter than a standard globe.

UPGRADE GLOBES								
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty	Page
olice -	Н1	H1-PW100DP2	ADR COMPLIANCE	12V	55W	P14.5s	Twin	398
Q.	НЗ	H3-PW100DP2	ADR COMPLIANCE	12V	55W	PK22s	Twin	400
100	H4	H4-PW100DP2	ADR COMPLIANCE	12V	60/55W	P43t	Twin	401
	H7	H7-PW100DP2	ADR COMPLIANCE	12V	55W	PX26d	Twin	404
A second	Н9	H9-PW100DP2	ADR COMPLIANCE	12V	65W	PGJ19-5	Twin	405
	H11	H11-PW100DP2	ADR COMPLIANCE	12V	55W	PGJ19-2	Twin	405
A Company	HB3	HB3-PW100DP2	ADR COMPLIANCE	12V	60W	P20d	Twin	402
<b>M</b> ess	HB4	HB4-PW100DP2	ADR COMPLIANCE	12V	51W	P22d	Twin	403



## SUPERVISION-PLUS 50 - UP TO + 50% BRIGHTER

Plus 50 globes take lighting even further by providing up to 50% more illumination on the road than a standard headlamp globe while emitting a 10-20m longer beam.

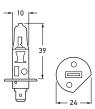
UPGRADE GLOBES								
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty	Page
	H1	H1-SV50DP2	ADR COMPLIANCE	12V	55W	P14.5s	Twin	398
()	Н3	H3-SV50DP2	ADR COMPLIANCE	12V	55W	PK22s	Twin	400
1	H4	H4-SV50DP2	ADR COMPLIANCE	12V	60/55W	P43t	Twin	401
	H7	H7-SV50DP2	ADR COMPLIANCE	12V	55W	PX26d	Twin	404
-	Н9	H9-SV50DP2	ADR COMPLIANCE	12V	65W	PGJ19-5	Twin	405
	H11	H11-SV50DP2	ADR COMPLIANCE	12V	55W	PGJ19-2	Twin	405
<b>M</b> ess-	HB3	HB3-SV50DP2	ADR COMPLIANCE	12V	60W	P20d	Twin	402
<b>M</b> eri-	HB4	HB4-SV50DP2	ADR COMPLIANCE	12V	51W	P22d	Twin	403



H1-SV50DP2



Retail Packaging



HALOGEN GLOBES - H1										
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty					
H1-SV50DP2 8GH 211 730-391	12V	55W	P14.5s	H1	Twin					
H1-XWUBLUEDP2 8GH 211 730-401	12V	55W	P14.5s	Н1	Twin					
H1-PW100DP2 8GH 211 730-421	12V	55W	P14.5s	H1	Twin					
H1-LLDP2 8GH 178 555-381	12V	55W	P14.5s	H1	Twin					
H1-LL-24VDP2 8GH 178 555-414	24V	70W	P14.5s	H1	Twin					

HALOGEN GLOBES - H1										
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		Life T <sub>C</sub> rs)				
C2470LTS 8GH 002 089-492 Plus 100 Long Life	24V	70W	P14.5s	H1	LONGLIFE 1200	STANDARD 650				
C1255LL 8GH 002 089-352	12V	55W	P14.5s	Н1	LONGLIFE 1250	STANDARD 400				

HALOGEN GLOBES - H1						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
C12100 8GH 002 089-152	12V	100W	P14.5s	-	-	
C12100BL 8GH 002 089-154	12V	100W	P14.5s	-	-	
C24100 8GH 002 089-452	24V	100W	P14.5s	-	-	
C24100BL 8GH 002 089-454	24V	100W	P14.5s	-	-	
C1255 8GH 002 089-131	12V	55W	P14.5s	Н1	-	
C1255BL 8GH 002 089-132	12V	55W	P14.5s	H1	-	
<b>C2455</b> 8GS 910 367-001	24V	55W	P14.5s	-	-	
C2470 8GH 002 089-252	24V	70W	P14.5s	H1	-	
<b>C2470BL</b> 8GH 002 089-254	24V	70W	P14.5s	H1	-	





HALOGEN GLOBES - H2									
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty				
<b>CD12100</b> 8GH 002 857-152	12V	100W	X511	-	-				
CD1255 8GH 002 857-124	12V	55W	X511	H2	-				
CD24100 8GH 002 857-231	24V	100W	X511	-	-				
CD2470 8GH 002 857-242	24V	70W	X511	H2	-				

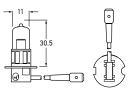


CD12100





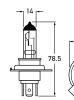




HALOGEN GLOBES - H3									
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty				
H3-SV50DP2 8GH 211 730-431	12V	55W	PK22s	НЗ	Twin				
H3-XWUBLUEDP2 8GH 211 730-441	12V	55W	PK22s	НЗ	Twin				
H3-PW100DP2 8GH 211 730-461	12V	55W	PK22s	Н3	Twin				
H3-LLDP2 8GH 211 730-471	12V	55W	PK22s	НЗ	Twin				
H3-LL-24VDP2 8GH 178 555-424	24V	70W	PK22s	НЗ	Twin				

HALOGEN GLOBES - H3									
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		l Life T <sub>C</sub> Irs)			
YC1255LL 8GH 002 090-111	12V	55W	PK22s	НЗ	LONGLIFE 1500	STANDARD 450			
YC2470LTS 8GH 002 090-472	24V	70W	PK22s	H3	LONGLIFE 1200	STANDARD 650			

HALOGEN GLOBES - H3						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
YC12100 8GH 002 090-051	12V	100W	PK22s	-		
YC12100BL 8GH 002 090-052	12V	100W	PK22s	-	Single	
YC24100 8GH 002 090-452	24V	100W	PK22s	-		
YC24100BL 8GH 002 090-454	24V	100W	PK22s	-	Single	
YC1255 8GH 002 090-131	12V	55W	PK22s	H3		
YC1255BL 8GH 002 090-133	12V	55W	PK22s	H3	Single	
YC2470 8GH 002 090-254	24V	70W	PK22s	H3		
YC2470BL 8GH 002 090-256	24V	70W	PK22s	H3	Single	



HALOGEN GLOBES - H4								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty			
H4-SV50DP2 8GJ 002 525-653	12V	60/55W	P43t	H4	Twin			
H4-XWUBLUEDP2 8GJ 002 525-364	12V	60/55W	P43t	H4	Twin			
H4-PW100DP2 8GJ 211 730-491	12V	60/55W	P43t	H4	Twin			
H4-LLDP2 8GJ 178 555-391	12V	60/55W	P43t	H4	Twin			
H4-LL-24VDP2 8GJ 178 555-434	24V	75/70W	P43t	H4	Twin			

HALOGEN GLOBES - H4						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		Life T <sub>C</sub> rs)
XD2475/70LTS 8GJ 002 525-712	24V	75/70W	P43t	H4	LONGLIFE 1400	STANDARD 700

HALOGEN GLOBES - H4								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		l Life T <sub>C</sub> Irs)		
XD1260/55LL 8GJ 002 525-482	12V	60/55W	P43t	H4	LONGLIFE 1500	STANDARD 700		
XD2475/70LL 8GJ 002 525-701	24V	75/70W	P43t	H4	LONGLIFE 1500	STANDARD 700		

HALOGEN GLOBES - H4						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
XD12100/55 8GJ 002 525-102	12V	100/55W	P43t	-	-	
XD12100/90 8GJ 002 525-202	12V	100/90W	P43t	-	-	
XD12100/90BL 8GJ 002 525-205	12V	100/90W	P43t	-	-	
XD24100/90 8GJ 002 525-452	24V	100/90W	P43t	-	-	
XD1260/55 8GJ 002 525-131	12V	60/55W	P43t	H4	-	
XD1260/55BL 8GJ 002 525-133	12V	60/55W	P43t	H4	-	
XD2475/70 8GJ 002 525-254	24V	75/70W	P43t	H4	-	
XD2475/70BL 8GJ 002 525-255	24V	75/70W	P43t	H4	-	







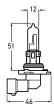


XD1260/55LL



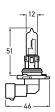


Retail Packaging



HALOGEN GLOBES - HB3						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
HB3-SV50DP2 8GH 211 730-631	12V	60W	P20d	HB3	Twin	
HB3-XWUBLUEDP2 8GH 211 730-641	12V	60W	P20d	HB3	Twin	
HB3-PW100DP2 8GH 211 730-661	12V	60W	P20d	HB3	Twin	
HB3-LLDP2 8GH 005 635-021	12V	60W	P20d	HB3	Twin	
CB1265 8GH 956 174-041	12V	60W	P20d	HB3	-	

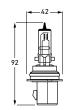




HALOGEN GLOBES - HB4								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty			
HB4-SV50DP2 8GH 211 730-671	12V	51W	P22d	HB4	Twin			
HB4-XWUBLUEDP2 8GH 211 730-681	12V	51W	P22d	HB4	Twin			
HB4-PW100DP2 8GH 211 730-701	12V	51W	P22d	HB4	Twin			
HB4-LLDP2 8GH 211 730-711	12V	51W	P22d	HB4	Twin			
CC1255 8GH 005 636-122	12V	51W	P22d	HB4	-			







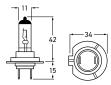
HALOGEN GLOBES - HB5								
Part Number	Voltage Power Consumption Base ADR 51/00 Category			*Rated Life T <sub>C</sub> (Hrs)				
CC1265/55LL 8GJ 008 824-141 LongLife 12V	12V	65/55W	PX29t	-	LONGLIFE 1500	STANDARD 700		
Note	SAE Categ	ory HB5						











HALOGEN GLOBES - H7								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty			
H7-SV50DP2 8GH 178 555-581	12V	55W	PX26d	H7	Twin			
H7-XWUBLUEDP2 8GH 178 555-571	12V	55W	PX26d	H7	Twin			
H7-PW100DP2 8GH 211 730-511	12V	55W	PX26d	H7	Twin			
H7-LLDP2 8GH 211 730-521	12V	55W	PX26d	H7	Twin			
H7-LL-24VDP2 8GH 211 730-531	24V	70W	PX26d	H7	Twin			

HALOGEN GLOBES - H7								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		l Life T <sub>C</sub> Irs)		
CA2470LTS 8GH 007 157-232	24V	70W	PX26d	H7	LONGLIFE 1000	STANDARD 500		
CA1255LL 8GH 007 157-202	12V	55W	PX26d	H7	LONGLIFE 930	STANDARD 550		

HALOGEN GLOBES - H7								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty			
CA1255 8GH 007 157-124	12V	55W	PX26d	H7	-			
<b>CA1255BL</b> 8GH 007 157-128	12V		PX26d	H7	-			
CA2470 8GH 007 157-242	24V	70W	PX26d	H7	-			





HALOGEN GLOBES - H8							
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category			
CE1235 8GH 008 356-122	12V	35W	PGJ 19-1	Н8			





HALOGEN GLOBES - H9								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty			
H9-SV50DP2 8GH 211 730-541	12V	65W	PGJ 19-5	Н9	Twin			
H9-XWUBLUEDP2 8GH 211 730-551	12V	65W	PGJ 19-5	Н9	Twin			
H9-PW100DP2 8GH 211 730-571	12V	65W	PGJ 19-5	Н9	Twin			
H9-LLDP2 8GH 211 730-581	12V	65W	PGJ 19-5	Н9	Twin			
CF1265 8GH 008 357-002	12V	65W	PGJ 19-5	Н9	-			











HALOGEN GLOBES - H11						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
H11-SV50DP2 8GH 211 730-591	12V	55W	PGJ 19-2	H11	Twin	
H11-XWUBLUEDP2 8GH 211 730-601	12V	55W	PGJ 19-2	H11	Twin	
H11-PW100DP2 8GH 211 730-621	12V	55W	PGJ 19-2	H11	Twin	
H11-LLDP2 8GH 178 555-401	12V	55W	PGJ 19-2	H11	Twin	
CG1255 8GH 008 358-122	12V	55W	PGJ 19-2	H11	-	
CG2470 8GH 008 358-242	24V	70W	PGJ 19-2	H11	-	



H11-SV50DP2



Retail Packaging

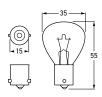




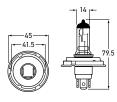


SPECIAL PURPOSE HALOGEN GLOBES - TRANSVERSE FILAMENT								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category				
YL125 8GH 002 473-152	12V	5W	BA9s	-				
YL1210 8GH 002 473-171	12V	10W	BA9s	-				





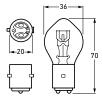
SPECIAL GLOBES FOR EMERGENCY FLASHER AND REVOLVING LAMPS								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category				
<b>U1245</b> 8GA 002 074-122	12V	45W	BA15s	-				
<b>U2445</b> 8GA 002 074-242	24V	45W	BA15s	-				



HALOGEN HEADLAMP GLOBES							
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category			
XE1260/55 8GJ 004 173-122	12V	60/55W	P45t	-			
XE2475/70 8GJ 003 133-241	24V	75/70W	P45t	-			



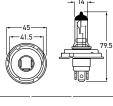
XE1260/55





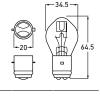
HEADLAMP GLOBES							
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category			
D1235/35 8GD 002 084-132	12V	35/35W	BA20d	S2			







8GD 002 088-252 24V 55/50W P45t R2
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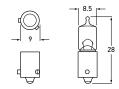


**B1245/40** 8GD 002 084-152 12V 45/40W BA20d -

Note Bosch base



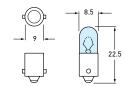
W126BL2



HALOGEN MINIATURE GLOBES							
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty		
<b>W126BL2</b> 8GH 007 643-122	12V	6W	BAX9s	H6W	Twin		



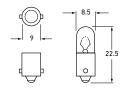
HLB124BL2



MINIATURE GLOBES						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
HLB124BL2 8GP 002 067-012	12V	4W	BA9s	T4W	Twin	



HL126X



MINIATURE GLOBES - MINIXEN							
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category			
HL126X 8GA 007 676-131	12V	6W	BA9s	-			

High performance miniature globe utilising xenon filling gas to provide  $\overline{\rm 60\%}$  brighter light than standard equivalents.



MINIATURE GLOBES								
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		l Life T <sub>C</sub> Irs)		
HL244LL 8GP 002 067-262	24V	4W	BA9s	T4W	LONGLIFE 1000	STANDARD 350		

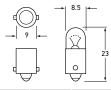




MINIATURE GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
HL64 8GP 002 067-062	6V	4W	BA9s	T4W	
HL124 8GP 002 067-152	12V	4W	BA9s	T4W	
HL244 8GP 002 067-243	24V	4W	BA9s	T4W	









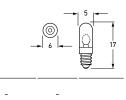
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H122 8GP 002 068-122	12V	2W	BA9s	-		
H123 8GP 002 068-132	12V	3W	BA9s	-		
<b>H242</b> 8GP 002 068-242	24V	2W	BA9s	-		

H122



J122 8GP 002 066-122	12V	2W	BA7s	-	
<b>J243</b> 8GP 002 066-242	24V	3W	BA7s	-	

J122





E 5.5

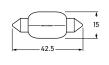
1.5W

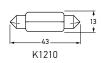
**292** 8GP 002 095-081

12V











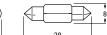


K1210



FESTOON GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
L125 8GM 002 092-124	12V	5W	SV8.5	C5W	
L1210 8GM 993 406-002	12V	10W	SV8.5	-	
<b>L2410</b> 8GM 002 091-031	24V	10W	SV8.5	-	
L245 8GM 002 092-243	24V	5W	SV8.5	C5W	
K1210 8GM 002 091-133	12V	10W	SV8.5		
<b>K2410</b> 8GM 002 091-251	24V	10W	SV8.5		
K1218 8GM 002 091-122	12V	18W	SV8.5	-	
K1221 8GM 002 091-182	12V	21W	SV8.5	C21W	
K2418 8GM 002 091-242	24V	18W	SV8.5	-	



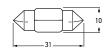




M123 8GM 002 094-121	12V	3W	S7	-	
M243 8GM 002 094-242	24V	3W	S7	-	







N1210	12\/	10W	SV8 5		
8GM 002 091-301	127	1000	370.0	-	



Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		l Life T <sub>c</sub> Irs)
G125LL 8GA 002 071-352	12V	5W	BA15s	R5W	LONGLIFE 1500	STANDARD 300
G1210LL 8GA 002 071-342	12V	10W	BA15s	R10W	LONGLIFE 500	STANDARD 300
G245LL 8GA 002 071-262	24V	5W	BA15s	R5W	LONGLIFE 1000	STANDARD 225
G2410LL 8GA 002 071-272	24V	10W	BA15s	R10W	LONGLIFE 1000	STANDARD 225
<b>G610</b> 8GA 002 071-072	6V	10W	BA15s	R10W		
<b>G125</b> 8GA 002 071-124	12V	5W	BA15s	R5W		
<b>G1210</b> 8GA 002 071-134	12V	10W	BA15s	R10W		
<b>G242</b> 8GS 910 363-001	24V	2W	BA15s	R2W		
<b>G245</b> 8GA 002 071-243	24V	5W	BA15s	R5W		
<b>G2410</b> 8GA 002 071-253	24V	10W	BA15s	R10W		



G125LL



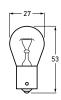
<b>GD125</b> 8GA 002 071-371	12V	5W	BA15d	R5W	
GD245 8GA 002 071-361	24V	5W	BA15d	R5W	











BAYONET INDICATOR AN	D STOP LA	MP GLOBES				
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		l Life T <sub>C</sub> Irs)
RY1221LL 8GA 006 841-041 LongLife	12V	21W	BAU15s	PY21W	LONGLIFE 2400	STANDARD 450
RY2421LL 8GA 006 841-252	24V	21W	BAU15s	PY21W	LONGLIFE 750	STANDARD N/A
RY1221 8GA 006 841-122	12V	21W	BAU15s	PY21W		







R1221LL 8GA 002 073-272	12V	21W	BA15s	P21W	LONGLIFE 1000	STANDARD 320
R2421LL 8GA 002 073-252	24V	21W	BA15s	P21W	LONGLIFE 500	STANDARD 160



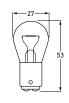
RQ1221



RQ1221 8GH 008 417-002	12V	21W	BAY9s	H21W	
RQ2421 8GH 008 417-013	24V	21W	BAY9s	H21W	





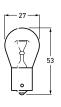


BAYONET INDICATOR AN	D STOP LA	MP GLOBES		
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category
FD1221 8GA 002 073-161	12V	21W	BA15d	P21W
FD2421 8GA 002 073-031	24V	21W	BA15d	P21W





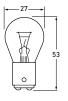




R1218 8GA 002 072-122	12V	18W	BA15s	
R1221 8GA 002 073-124	12V	21W	BA15s	P21W
R2418 8GA 002 072-242	24V	18W	BA15s	
R2421 8GA 002 073-243	24V	21W	BA15s	P21W





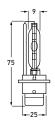


BAYONET STOP AND TAIL	LAMP GLOBES						
Part Numbers	Voltage Power Consumption Base ADR 51/00 *Rated Life (Hrs)						
S1221/5VLL 8GD 002 078-172 LongLife 12V	12V	21/5W	BAY15d	P21/5W	LONGLIFE *800	STANDARD *320	
Note	*Test perfo	ormed on main fila	ment only.				
S1221/5V 8GD 002 078-124	12V	21/5W	BAY15d	P21/5W			
S2418/5V 8GD 002 078-071	24V	18/5W	BAY15d				
S2421/5V 8GD 002 078-012	24V	21/5W	BAY15d	P21/5W			





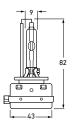




D2S XGD GLOBES					
Part Number	Voltage	Power Consumption	Base	ADR 78/00 Category	Colour Temperature
XN4000 8GS 007 949-102	85V	35W	P32d-2	D2S	4200°K
Note	For use or	nly with appropriat	e electronic c	ontrol gear.	



XN4001



D1S XGD GLOBE						
Part Number	Voltage	Power Consumption	Base	ADR 78/00 Category	Colour Temperature	
XN4001 8GS 009 028-002	85V	35W	PK32d-2	D1S	4200°K	
Note	For use or	nly with appropriate	e electronic c	ontrol gear.		





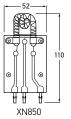
STROBE FLASH TUBES					
Part Numbers	Voltage	Power Consumption	Base		
XN000 8GS 910 369-001	12-72V	-	Circuit Board		
Note		nly with appropriat polt Plus Series Str		ontrol gear.	



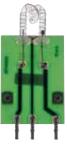


XN551 8GS 910 362-001	12-48V	-	Circuit Board	
Note	,		ate electronic control gear. Strobe Lamps.	





STROBE FLASH TUBE	ES					
Part Numbers	Voltage	Power Consumption	Base			
XN850 8GS 910 366-001	12/48V	12/48V - Circuit Board				
Note		nly with appropriat Series Strobe Lam	e electronic control gear. ps.			
XN6750 8GS 910 370-001	12/24V	-	Circuit Board			
Note		For use only with appropriate electronic control gear. Suits 6750 Series Strobe Lamps.				



XN850





WBQ125BL2



W126X



W125LL

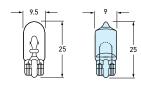




W1221



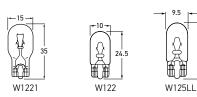
WBL122



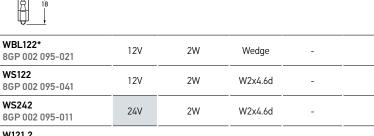
W126X WBQ125BL2

HALOGEN WEDGE BASE	SLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
WBQ125BL2 8GP 003 594-291	12V	5W	W2.1x9.5d	W5W	Twin	
W126X 8GP 003 594-401	12V	6W	W2.1x9.5d	-	-	

High performance miniature globe utilising xenon filling gas to provide 60% brighter light than standard equivalents.



WEDGE BASE GLOBES						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		l Life T <sub>c</sub> Irs)
W125LL 8GP 003 594-161	12V	5W	W2.1x9.5d	W5W	LONGLIFE 1500	STANDARD 700
W122 8GP 002 095-071	12V	2 c.p	W2.1x9.5d	-		
W125 8GP 003 594-124	12V	5W	W2.1x9.5d	W5W		
W245 8GP 003 594-243	24V	5W	W2.1x9.5d	W5W		
W1221 8GA 008 246-001	12V	21 c.p	W2.1x9.5d	W16W		
WS1212 8GP 002 095-051	12V	12 c.p	W2.1x9.5d	-		



8GP 002 095-041						
<b>WS242</b> 8GP 002 095-011	24V	2W	W2x4.6d	-		
<b>W121.2</b> 8GP 002 095-121	12V	1.2W	W2x4.6d	-		
<b>W241.2</b> 8GP 002 095-242	24V	1.2W	W2x4.6d	-		
Note	*Special for early model Matrix high level brake lamps.					



GLASS WEDGE BASE GLOBES							
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category			
WG1221 8GA 008 892-001	12V	21W	W3x16d	W21W			
WGY1221 8GP 009 021-123	12V	21W	W3x16d	WY21W			



WG1221



WGY1221



WG1221/5



WG1221/5	12V	21/5W	\\/2\\1/~	W21/5W
8GD 008 893-001	IZV	21/300	W3x16q	VVZ1/3VV



PLASTIC WEDGE BASE GLOBES								
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category				
WP1227/7 8GD 007 731-271	12V	27/7W	W2.5x16q	P27/7W				



WP1227/7



WPA1227/7	121/	27/7W	W/2 Ev/1/ a	P27/7W	
8GD 007 731-011	IZV	Z///VV	W2.5x16q	FZ///VV	



WPA1227/7

FLUORESCENT TUBES			
Part Numbers	Power Consumption	Base	Colour
FL7CW4P 8GS 861 955-051	7W	2G7	840 Cool White
Suits	2642/2642-24V		
FL11CW4P 8GS 861 955-022	11W	2G7	840 Cool White
Suits	2643/2643-24V/1523		



# 3RD EDITION ADR REFERENCE GUIDE

The following pages are a guide to mounting HELLA lamps in compliance with the Australian Design Rules (ADR). The diagrams in this section are intended as a general guide only, for exact mounting specifications please refer to ADR 13/00.



A quick reference



1. Find the product that fulfils your illumination requirement.



2. Check for the ADR symbol next to the part number to ensure it's compliance.

MELLA	Digestrong.	ASEM:	Funder
Fart No.	Supplied and	48.00	Number Policy Lamp
2350	101366-23	26/05	Number Plain Lamb
2561	20130-21	-	Number Pare Lond
2553	VV (048-02	ARITH	Number Plantans
2954	990121-00	49:03	Number Plain Lynn
2555	391384-10	78/01	Name of the Land
1000	Cit Fastion	AAGE	Marine Francisco

3. Look up the part number on the chart in this section for complete ADR information.

## Simpler ADR Compliance

The 3rd edition ADR covers all vehicles and trailers, even those not subject to registration requirements such as very light trailers or 'box' trailers.

To simplify the ADR approval process for smaller manufacturers and individual home-builders HFLLA has made a consolidated Summary

of Evidence (SE) submission to the Federal Office of Road Safety (FORS). This submission covers all HELLA products that comply with 3rd Edition ADRs

This catalogue lists both the HELLA and FORS Component Registration Numbers (CRN) beside each item in a quick reference ADR application

chart in this section.

HELLA provides specific ADR related lamp orientation and mounting requirements to enable customers requiring ADR compliance to simply quote the relevant CRN to the authorities (who maintain a central register), rather than undertake detailed SE submissions for each lamp function.

## REAR

1 ADR 49/00

ADR 48/00

ADR 6/00: Cat.2

ADR 49/00

ADR 49/00

ADR 47/00

ADR 1/00

Rear End Outline Lamps Number Plate Lamps

Rear Direction Indicators

Rear Position Lamps

Stop Lamps

Rear Retro Reflectors

Reversing Lamps

## SIDE

8 ADR 47/00

Side Retro Reflectors

ADR 45/01 or 74/00 Side Markers ADR 6/00

Supplementary Side Direction Indicators

## FRONT

11 ADR 49/00

ADR 45/01

ADR 6/00: Cat.1

ADR 50/00

ADR 46/00

ADR 49/00

ADR 47/00

ADR 76/00

Front End Outline Lamps

Cab Markers (optional)

Front Direction Indicators

Front Fog Lamps (optional)

Headlamps

Front Position Lamps

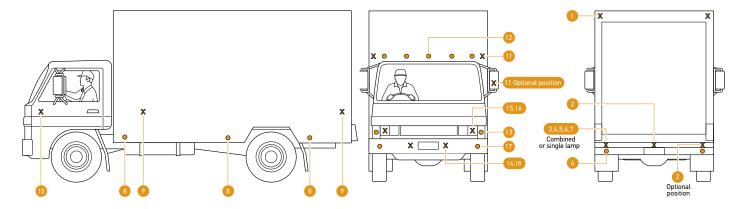
Front Retro Reflectors

Daytime Running Lamps (optional)

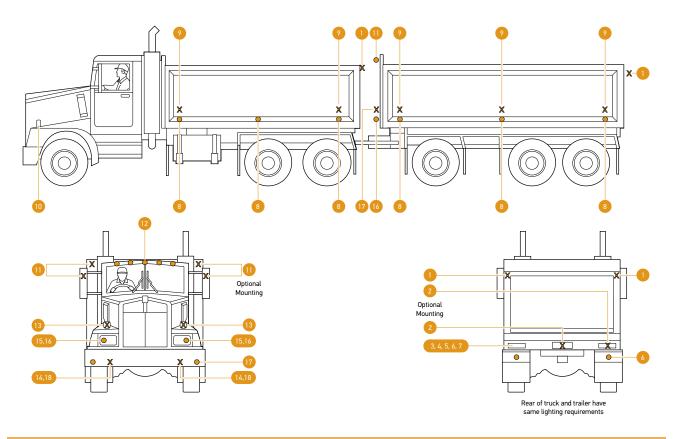
Driving Lamps (optional)

\*Optional on motor vehicles, ADR 13/00 permits up to 4 driving lamps that do not have to comply with ADR 46/00

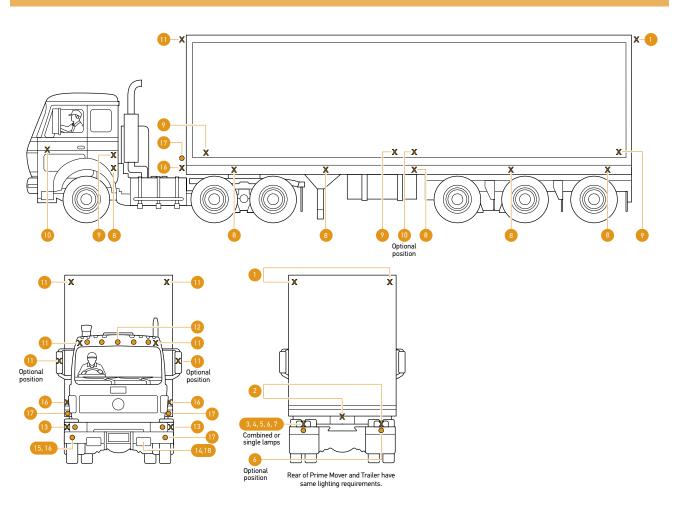
## SMALL TRUCK



# SINGLE TRAILER



## SEMI TRAILER



## **ADR FITTING GUIDE**

#### REAR

1 ADR 49/00 Rear End Outline Lamps
2 ADR 48/00 Number Plate Lamps
3 ADR 6/00: Cat.2 Rear Direction Indicators
4 ADR 49/00 Rear Position Lamps

5 ADR 49/00 Stop Lamps6 ADR 47/00 Rear Retro Reflectors

7 ADR 1/00 Reversing Lamps

SIDE

8 ADR 47/00 Side Retro Reflectors
ADR 45/01 or 74/00 Side Markers

10 ADR 6/00 Supplementary Side Direction Indicators

#### FRONT

11 ADR 49/00 Front End Outline Lamps
 12 ADR 45/01 Cab Markers (optional)
 13 ADR 6/00: Cat.1 Front Direction Indicators
 14 ADR 50/00 Front Fog Lamps (optional)

15 ADR 46/00 Headlamps

ADR 49/00 Front Position Lamps

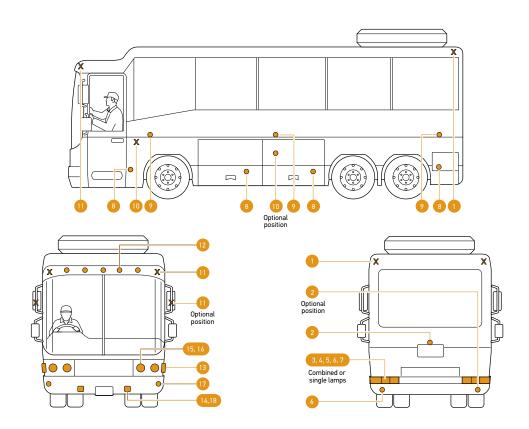
ADR 47/00 Front Retro Reflectors

B ADR 76/00 Daytime Running Lamps (optional)

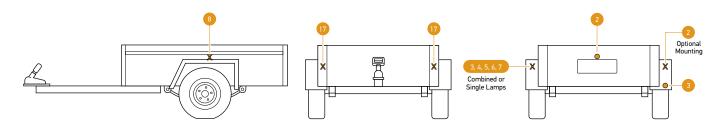
Driving Lamps (optional)

\*Optional on motor vehicles. ADR 13/00 permits up to 4 driving lamps that do not have to comply with ADR 46/00

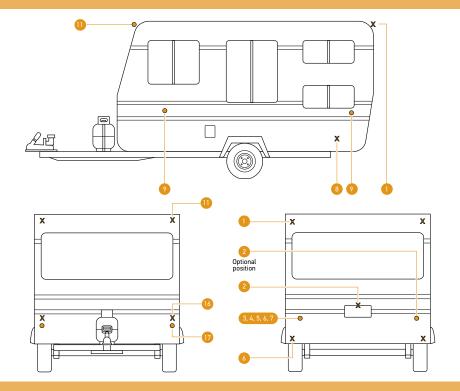
#### COACH



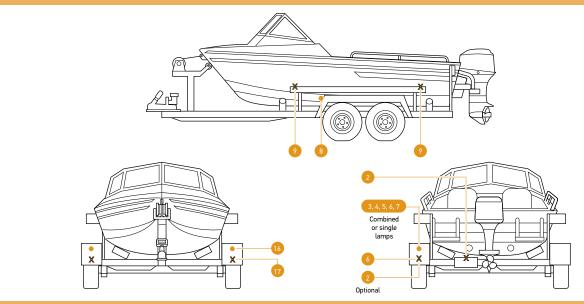
# SMALL TRAILER



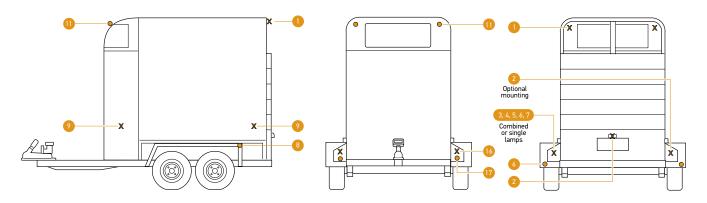
# CARAVAN



# **BOAT TRAILER**



# HORSE FLOAT



HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1004	980670-00	7/ /00	Douting Dunning	LED	NI/A I ED	N/A FCF	F2/ 07D 000000	000 702 10	E24 0002
HM1535DRL	980670-80	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000002	980-703-10	(0670)
1005	980680-00	76/00	Daytimo Pupping Lance	LED	NI/A LED	N/A ECT	E2/, 07D, 000001	980-703-12	E24 0001
1005-24V	980680-50	70/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-24	(0680)
1006	980690-50	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1006*A	42763	980-703-47	0690
1007-24V	980690-40	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-53	0690
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5854	700 700 00	
1008	980680-11	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-68	E24 0001
1008-24V	980680-61	70,00	Day time training camp		11,71 225		2240/11 000001	980-703-69	(0680)
1009	980880-00	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1009*A	44200	958-780-04	0880
1009-24V	980880-10		, gp			DRL*1009-24V*A	44202		
1009V	980880-40	76/00	Daytime Running Lamp	LED	N/A LED	1009V*DRL*C	45962	958-780-92	0880 B
1009V-24V	980880-50		3 1			1009V-24V*DRL*C	45965		
1013	980970-00	76/00	Daytime Running Lamp	LED	N/A LED	*DRL*1013*A	44776	958-780-44	0970
1013-24V	980970-50		. ,			*DRL*1013-24V*A	44783		
1027	003434-18	46/00	Headlamp	XD1260/55	H4	HL*1027*A	15311	911-352-79	17016
		49/00	Front Position Lamp	HL124	T4W	FP*1027*A	15317		
1028	007834-00	46/00	Headlamp (Low/Dipped Beam)	C1255	H1	HL*1028*A	32013	911-353-80	550
1029	008193-00	46/00	Headlamp (Low/Dipped Beam)	CA1255	H7	HL*1029*A	32008	911-353-81	917
1030	008191-00/02	46/00	Headlamp (High/Main Beam)	CA1255	H7	HL*1030*A	32009		
		49/00	Front Position Lamp (1030 only)	HL124	T4W	FP*1030*A	32014	911-353-79	917
1031	008191-04	46/00	Headlamp (High/Main Beam)	CA1255	H7	HL*1031*A	32010		
1041	003177-06	46/00	Headlamp	C1255	H1	HL*1041*A	15071	911-351-06	24504
1042	003177-30	46/00	Headlamp	XD1260/55	H4	HL*1042*A	15072	911-351-07	7197R20
1043	003427-04	46/00	Headlamp	XD1260/55	H4	HL*1043*A	15198	911-351-08	17009
		49/00	Front Position Lamp	HL124	T4W	FP*1043*A	15197		
1044	003177-51	46/00	Headlamp	XD1260/55	H4	HL*1044*A	15073	911-351-10	7197R20
		49/00	Front Position Lamp	HL124	T4W	FP*1044*A	15074		
1053	114155-00	46/00	Headlamp	C1255	H1	HL*1053*A	15075	911-351-14	14464R8
1054	114178-00	46/00	Headlamp	C1255	H1	HL*1054*A	15092	911-351-15	7076R8
		49/00	Front Position Lamp	HL124	T4W	FP*1054*A	15093		
1055 &	002850-06 &	46/00	Headlamp	XD1260/55	H4	HL*1055*A	15088	911-351-16	17031R20
1055HD	002850-21	49/00	Front Position Lamp	HL124	T4W	FP*1055*A	15089		
1056	002395-84	46/00	Headlamp	XD1260/55	H4	HL*1056*A	15094	911-351-17	53
		49/00	Front Position Lamp	HL124	T4W	FP*1056*A	15095		
1058 & 1058HD	002395-13 (950519-00) &	46/00	Headlamp	XD1260/55	H4	HL*1058*A	15096	911-351-18	53
.555 & 165611	002395-26	49/00	Front Position Lamp	HL124	T4W	FP*1058*A	15097	711 331-10	
		46/00	Headlamp	LED	N/A LED	N/A ECE	403 HOD 01 DI		
1058LED	958307-01	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	A02 HCR 01 PL RL 00 E11 12.5	958-315	53
		76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	6080		
1ML012488111	012.488-111	46/00	Low Beam Headlamp	LED	N/A LED	N/A ECE			
		46/00	Low Beam Headlamp	LED	N/A LED	N/A ECE		HKG &	
1ML012488131	012.488-131	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E1 4090	ADR 13/00	E1 4090
		76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE			
1F0011988-121	011.988-121	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE			
<u>.</u>	<u> </u>	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE			
1F0011988-131	011.988-131	49/00	Front Position Lamp	LED	N/A LED	N/A ECE		HKG & E1 3831 ADR 13/00	
		76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E1 3831		E1 3831
		46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	ADR 13/00		
1F0011988-171	011.988-171	6/00 Cat1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE			
		3/ 00 Cat1	11011 Direction mulcator Lamp	LLD	IN/A LLD	IN/M LUL			

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1M0015050011	015.050-011		Low Beam Headlamp	LED	N/A LED	N/A ECE	54 0000	HKG &	F4 0000
1M0015050021	015.050-021	- 46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E1 8993	ADR 13/00	E1 8993
1LL012758111	012.758-111	///00	Headlana	LED	N/A LED	NI/A FOE	E1 4209	HKG & ADR	E1 4209
1LL015318041	015.318-041	46/00	Headlamp	LED	N/A LED	N/A ECE	E1 0020	13/00	E1 0020
1TL998570641	998.570-641	55/00	Low Beam Headlamp (Motorcycle)	LED	N/A LED	N/A ECE	E4 0237	HKG & ADR 19/00	E4 0237
1KL998570621	998.570-621	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E4 24910	HKG & ADR 13/00	E4 24910
1KL998570631	998.570-631	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E4 26353	HKG & ADR	E4 26353
IKE776370631	770.370-031	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	L4 20333	13/00	
1107	956329-00	50/00	Front Fog Lamp	YC1255	Н3	FF*1107*A	15127	911-351-29	8361
1108	005750-04	50/00	Front Fog Lamp	YC1255	Н3	FF*1108*A	15137	911-351-30	18213R19
1109	005700-02	50/00	Front Fog Lamp	YC1255	Н3	FF*1109*A	15134	911-351-31	18216R19
1110	005860-00	50/00	Front Fog Lamp	YC1255	Н3	FF1110*A	15218	911-351-32	18227
1111	006300-07	50/00	Front Fog Lamp	YC1255	Н3	FF*1111*A	15255	911-351-33	18231
1122	008283-00	50/00	Front Fog Lamp	CA1255	H7	FF*1122*A	26829	911-353-45	021209
1123	008284-00	50/00	Front Fog Lamp	CA1255	H7	FF*1123*A	26830	911-353-47	021211
1307	956329-01	46/00	High Beam Headlamp	YC1255	Н3	HL*1307*A	15121	911-351-42	24556R8
1308	005750-30	46/00	High Beam Headlamp	YC1255	Н3	HL*1308*A	15139	911-351-43	0444404R8
1309	005700-11	46/00	High Beam Headlamp	YC1255	H3	HL*1309*A	15132	911-351-44	0444410R8
1310	005860-03	46/00	High Beam Headlamp	YC1255	H3	HL*1310*A	15220	911-351-45	044442
1311	006300-12	46/00	High Beam Headlamp	YC1255	H3	HL*1311*A	15254	911-351-46	0444444
1322	008283-01	46/00	High Beam Headlamp	CA1255	H7	HL*1322*A	26822	911-353-44	041210
1323	008284-01	46/00	High Beam Headlamp	CA1255	H7	HL*1323*A	26823	911-353-46	041212
1324	001951-00	46/00	High Beam Headlamp	YC1255	НЗ	N/A ECE	HR 01 12.5 E1 3221	HKG 460 845-16 & Refer ADR 13/00	E1 3221 R112
1325	001952-00	46/00	High Beam Headlamp	YC1255	НЗ	N/A ECE	HR 01 17.5 E1 3222	HKG 460 845-16 & Refer ADR 13/00	E1 3222 R112
1326	001953-00	46/00	High Beam Headlamp	YC1255	Н3	N/A ECE	HR 01 12.5 E1 3223	HKG 460 845-16 & Refer ADR 13/00	E1 3223 R112
1358	958307-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E11 30 01 7501	958-315-65	E11 30 01 7501
1363	004700-15	46/00	High Beam Headlamp	CD1255	H2	HL*1363*A	15141	911-351-51	34518R8
	007510.40	46/00	High Beam Headlamp	C1255	H1	HL*1376*B	32428	244 050 05	
1376BLUE	007560-13	49/00	Front Position Lamp	W125	W5W	FP*1376*A	32432	911-353-85	44484
		46/00	High Beam Headlamp	C1255	H1	HL*1376HB*A	36324		
1376BLUEHB	007560-32	49/00	Front Position Lamp	W125	W5W	FP*1376HB*A	36325	911-355-08	1928
1378	009094-02								
1378CHROME	009094-03	46/00	High Beam Headlamp	C1255	H1	HL*1378*A	33671	911-353-94	00 1901
1382	009094-141	77/00	High Beam Headlamp	XN4001	D1S	HL*1382*B	36044	911-355-07	02 2087
1384	009094-311	77/00	High Beam Headlamp	XN4001	D1S	N/A ECE	E1 002087	HKG 460 818-21 & Refer ADR 13/00	E1 002087
1393	010119-01					HL*1378*A	33671	HKG 460 719-11	
1393CHROME	010119-11	46/00	High Beam Headlamp	C1255	H1	N/A ECE	HR 001901 E1 37.5	& Refer ADR 13/00	00 1901
1394LED	011815-00							HKG 460 818-29	
1394LEDHD	011815-03	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	HR PL 01 45 E1 3738	& Refer ADR 13/00	E1 3738
1395	958 040-02						E0/ 1165	460 881-50	
1395HD	958 040-03	- 46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112R- 010008	460 881-51	E24 20 0008
1396	958 040-06	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112R- 010009	460 881-50	E24 30 0009
1396HD	958 040-04							460 881-51	

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1397HD	958 040-12	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112-01 0012	460 881-51	E24 25 0012
1398HD	958 040-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112-01 0013	460 881-51	E24 37.5 0013
	041510.00	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	507.5040		50/05 50/0
1F8 016 560-001	016 560-00	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5919	HKG	E24 25 5919
150.017.570.011	01/ 5/0 01	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 5920	111/0	F0/ F0 F000
1F8 016 560-011	016 560-01	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5919	HKG	E24 50 5920
150.01/.5/0.001	01/ E/0 02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	F2/ F010	LIIVC	E27 2E E010
1F8 016 560-021	016 560-02	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5919	HKG	E24 25 5919
150.01/.5/0.001	01/ 5/0 00	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 5920	111/0	F0/ F0 F000
1F8 016 560-031	016 560-03	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5919	HKG	E24 50 5920
150 01/ 505 111	01 / 505 11	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	F0/ F010	111/0	F0/ 0F F010
1F8 016 797-111	016 797-11	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5919	HKG	E24 25 5919
		46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 5920		501505000
1F8 016 797-011	016 797-01	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5919	HKG	E24 50 5920
1FA 996 197-151	996 197-15				_				
1FA 996 197-181	997 197-18	- 46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E1 4517	HKG	E1 4517
1403	003030-17	1/00	Reversing Lamp	R1221	P21W	RL*1403*A	30830	911-353-73	8726
1405	003014-09	1/00	Reversing Lamp	R1221	P21W	RL*1405*A	15131	911-351-53	8703R23
1408	997506-15	1/00	Reversing Spotlamp	YC1255	H3	RL*1408*A	37918	911-355-11	23005
1410	005860-15	1/00	Reversing Spotlamp	YC1255	H3	RL*1410*A	37919	911-355-12	2186
1430-H	959070-50					RL*1430-H*A	36417		
1430-V	959070-55	- 1/00	Reversing Lamp	LED	N/A LED	RL*1430-V*A	36418	959-150-10	9060
1433	959820-00	1/00	Reversing Lamp	LED	N/A LED	RL*1433*A	33190	959-149-69	9020
1446-H	959041-30					RL*1446-H*A	35980		
1446-V	959041-40	1/00	Reversing Lamp	LED	N/A LED	RL*1446-V*A	36243	959-149-95	9040
1447L	959041-37								
1447R	959041-36	1/00	Reversing Lamp	LED	N/A LED	1447*RV*C	45662	958-780-84	9040
		1/00	Reversing Lamp	LED	N/A LED	RL*1461*A	45442		
1461	980762-01	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633	958-780-72	0760
1465	959930-00	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-04	9930
1467	959930-11	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-18	9930
1468	980889-00	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0027	958-315-25	
1468-24V	980889-20	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0027	958-315-25	- 0880D
1468V	980889-10	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0028	958-315-26	
1468V-24V	980889-30	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0028	958-315-26	- 0880E
1490	959010-50	1/00	Reversing Lamp	LED	N/A LED	RL*1490*A	36253	959-150-16	9010
1547LED-RE	996376-09	1/00	Reversing Spotlamp	LED	N/A LED	N/A ECE	00 E1 3902	HFA 460 845-18 / 04.14 & Refer ADR 13/00	003902
1551LED-RE	996188-12	1/00	Reversing Spotlamp	LED	N/A LED	N/A ECE	00 E1 3249	HFA 460 845-15 / 02.12 & Refer ADR 13/00	003249
1563LED-RE	996284-50	1/00	Reversing Spotlamp	LED	N/A LED	N/A ECE	00 E1 4576	HFA 460 845-20 / 11.16 & Refer ADR 13/00	004576
		45/01	Cab Marker Lamp			9560-CRN-06A	50133		
2026 & HM2026	050//0.55				M. / · · ==	9560-CRN-45A	50134	959-149-17 /	05/0
& HM2026D	959660-30	6/00:Cat 5	Supp. Side Direction Indicator Lamp	LED	N/A LED	95602CRN-45A	50135	05.19	9560
						95602CRN-06A	50136		
2027		45/01	Cab Marker Lamp			CM*2027*A	42856		
2027P	980660-10	6/00:Cat 5	Supp. Side Direction Indicator Lamp	LED	N/A LED	SDI*2027*A	42857	980-703-13	6600
	900139-01	45/01	Side Marker Lamp	L125	C5W	SM*2029*A	15143	911-351-69	910049

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2030	900139-02	6/00:Cat 5	Supp. Side Direction Indicator Lamp	L125	C5W	FL*2030*A	15146	911-351-70	910049
2031	959700-00	6/00:Cat 5	Supp. Side Direction Indicator Lamp	LED	N/A LED	SDI*2031*A	30768	959-149-55	9700
2033	959700-20	45/01	Side Marker Lamp	LED	N/A LED	SM*2033*A	31432	959-149-58	9700
2037	900139-04	45/01	Side Marker Lamp	L125	C5W	SM*2037*A	15144	911-351-72	910049
2041LED-H	2041LED-H	1/00	Reversing Lamp	LED	N/A LED	RL*1446-H*A	35980	959-149-95	9040
2043	910663-09	1/00	Reversing Lamp	R1221	P21W	RL*2043*A	15111	911-351-75	R.D.68158
		1/00	Reversing Lamp	R1221	P21W	RL*2046*A	15329		
2046 & 2046PC	958607-02	49/00	Front Position Lamp or Front End Outline Lamp	G125	R5W	FP*2046*A	15352	911-352-89	HNZ01
2047	963639-00	74/00 SM1	Side Marker Lamp : SM1	LED	N/A LED	··· N/A ECE	SM1 00	Refer ADR 13/00	SM1 00 E24
		47/00	Retro Reflector (Amber Side)	N/A	N/A		E24V5881	THE TEN TO, GO	5881
2048	963639-01	74/00 : SM1	Side Marker Lamp : SM1	LED	N/A LED	··· N/A ECE	SM1 00	Refer ADR 13/00	SM1 00 E24
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	47/00	Retro Reflector (Amber Side)	N/A	N/A		E24V5881	11010171011110700	5881
2051 & HM2051 & HM2051D	959570-30	49/00	Front End Outline Lamp	LED	N/A LED	FE0*2051*A	25032	959-149-19	9560
2051GMD	959570-10	49/00	Front End Outline Lamp	LED	N/A LED	FE0*2051X*A	40676	959-150-79	9560
2053 & 2053PC & HM2053PC & HM2053PCD & 2053GMD	959660-50	45/01	Side Marker Lamp	LED	N/A LED	SM*2053*A	24743	959-149-16	9560
2054 & HM2054 & HM2054D	959570-40	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	N/A ECE	A 02 E24 0051	959-149-25	A 02 E24 0051
2054GMD	959570-50	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	FP*2054X*A	40677	959-150-80	9560
2055	959590-40	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	N/A ECE	A 02 E24 0054	959-149-26	A 02 E24 0054
2056	959590-30	49/00	Front End Outline Lamp	LED	N/A LED	FE0*2056*A	27380	959-149-38	9590
2057	959650-00	45/01	Cab Marker Lamp	LED	N/A LED	CM*2057*A	27432	959-149-42	9650
2058	980660-00	45/01	Side Marker Lamp	LED	N/A LED	SM*2058*A	41597	980-703-13	6600
2058P	980660-02	40,01	olde Flather Earlip				41077	700 700 10	
2059	980855-01	49/00	Front Position Lamp or	LED	N/A LED	FP*2059*A	45233	958-780-67	0855
2059S	980855-02		Front End Outline Lamp						
2060	980855-20	49/00	Front End Outline Lamp	LED	N/A LED	FE0*2060*A	45630	958-780-70	0855
2060S	980855-21								
2061	980660-20	49/00	Front Position Lamp or	LED	N/A LED	2061*FP*C	46857	958-780-95	6600
2061P	980660-21		Front End Outline Lamp						
2062	980660-22	49/00	Front End Outline Lamp	LED	N/A LED	2062*FE0M*C	46858	958-780-96	6600
2062P	980660-30		5 10 W 1						
2063	900741-25	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2063*A	15282	911-351-76	10833
2064	003014-07	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2064*A	15177	911-351-77	11793R7
2066	006679-00	49/00	Front Position Lamp or Front End Outline Lamp	G1210	R10W	FP*2066*A	15253	911-351-79	0121691
2071	980990-40	49/00	Front End Outline Lamp	LED	N/A LED	2071*FE0M*C	45943	958-780-90	0990
2073	980990-00	45/01	Side Marker Lamp	LED	N/A LED	2073*SML*C	45809	958-780-87	0990
2074	980990-20	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	2074*FEOM*C	45944	958-780-89	0990
2076	980990-10	45/01 6/00:Cat 5	Cab Marker Lamp  Supp. Side Direction Indicator Lamp	··· LED	N/A LED	2076*ECM*C 2076*SDI*C	45810 45811	958-780-88	0990
2083	980868-04	/ E /01	Cida Markor !	LED	NI/A L ED	2002*C14*C	/711/	0E0 21E 22	00/0
2083S	980868-06	45/01	Side Marker Lamp	LED	N/A LED	2083*SM*C	47116	958-315-32	0868
2086	980868-30	4/00 Cc+ F	Supp Side Direction Indicated	LED	NI/A LED	2004 CDNI 0/4	/,000n	/.40 0/E 0/	0002
2086S	980868-32	6/00:Cat 5	Supp. Side Direction Indicator Lamp	LED	N/A LED	2086-CRN-06A	49890	460-965-06	8983
2101	002939-17	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2101*A	29439	911-353-58	32710

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2103-12V	008260-01								
2103-24V	008260-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2103*A	32646	911-353-90	01989
2105	959932-20	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	050 150 07	0000
2105CLR	959932-21	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105C*A	40148	959-150-24	9930
2107.00	050022.12	6/00:Cat 1	Front Direction Indicator Lamp	LED	NI/A LED	N/A FOE	1 01 E24 5851	050 150 00	1 01 E24 5851
2106-CS	959932-13	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	A 02 E24 5851	959-150-92	A 02 E24 5851
2107	959011-10	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2107*A	41601	000 702 10	9010
2107CLR	959011-11	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2107C*A	41609	980-703-19	7010
2108-GMD	980691-11	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-70	0690
2108-GMD24V	980690-00	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-29	0690
2100-0141244	700070-00	76/00	Daytime Running Lamp		N/A LLD	N/A LCL	L24 3034	700-703-27	0070
2109	980888-30	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	2109*FDI*C	46349	958-315-01	0880
2109-24V	980888-40	0/00.0411	Tront birection marcator Lamp	LLD	N/A LLD	210924H*DI*C	46348	730-313-01	0000
2109V	980888-50	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	2109V*FDI*C	46347	958-315-20	0880B
2109V-24V	980888-60	0/00.0411	Tront birection marcator Lamp		N/A LLD	210924V*DI*C	46346	730-313-20	ООООВ
2110-12V	980819-30	6/00:Cat 5	Front Direction Indicator Lamp	LED	N/A LED	12V-CRN-06A	49241	958-315-80	0880C
2110 121	700017 30	49/00	Front Position Lamp		N/A LLD	12V-CRN-49C	49263	730 313 00	
2110-24V	980819-40	6/00:Cat 5	Front Direction Indicator Lamp	LED	N/A LED	12V-CRN-06A	49252	958-315-80	0880C
2110-244	700017-40	49/00	Front Position Lamp	LLD	N/A LLD	12V-CRN-49C	49264	730-313-00	00000
2126	905626-04	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2126*A	15271	911-351-98	905628
2120	703020 04	6/00:Cat 5	Supp. Side Direction Indicator Lamp	G125	R5W	FL*2126*B	15300	711 331 70	703020
2127	900763-29	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2127*A	15272	911-351-99	R.D.10833
2127	700763-27	6/00:Cat 5	Supp. Side Direction Indicator Lamp	G125	R5W	FL*2127*B	15301	711-331-77	K.D.10033
		6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2128*A	15273		
2128	900763-30	6/00:Cat 5	Supp. Side Direction Indicator Lamp	G125	R5W	SDI*2128*A	15306	911-352-00	R.D.10833
2128LED	959932-30	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-25	9930
2129	900763-31	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	FD1221	P21W (DC)	DI*2129*A	15304	911-352-76	R.D.10833
2127	700703-31	6/00:Cat 5	Supp. Side Direction Indicator Lamp	GD125	R5W (DC)	DI*2129*B	15305	711-332-70	N.D.10033
2130	959011-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2130*A	30649	959-149-50	9010
2133	959822-00		·						
2133CS	959822-60	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2133*A	33191	959-149-71	9020
2133-24V	959021-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2133-24V*A	30442	959-149-53	9020
		6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2135*A	15270		
2135 & 2135PC	900739-10	49/00	Front End Outline Lamp	L125	C5W	FE0*2135*A	25578	911-352-02	10833
2135LED	959932-31	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-26	9930
		6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2136*A	15211		
2136	900741-21	49/00	Front End Outline Lamp	L125	C5W	FE0*2136*A	25579	911-352-03	10833
						12V Horiz	44203		
						24V Horiz	44204		
2138	959031-00	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Vert	44205	958-780-39	9030
						24V Vert	44209		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		6/00:Cat 1& 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2142*C	15318		
2142	905141-02	•		Clas	DEW	EI*21/2*D	15202	911-352-06	53174
		6/00:Cat 5	Supp. Side Direction Indicator Lamp	G125	R5W	FL*2142*B	15203		
		6/00:Cat6	Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2142*D	30062		
2143	910663-08	6/00:Cat 2a 49/00	Rear Direction Indicator Lamp  Front End Outline Lamp	R1221 G125	P21W R5W	DI*2143*A FE0*2143*A	15110 25523	911-352-07	R.D.68158
2144LED-H	2144LED-H	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H*A	26179	959-149-30	9040

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2145*A	15330		
2145 & 2145PC	958607-00	49/00	Front End Outline Lamp	G125	R5W	FE0*2145*A	25577	911-352-90	HNZ01
2146-H	959041-10					DI*2146-H*A	26179	959-149-30	
2146-HCS	959041-51					DI*2146-H24*A	34498	959-150-57	
2146-H24	959041-50	- 6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI 2140-H24 A	34470	959-149-88	9040
2146-V	959041-20	0/00:Cat2a	Real Direction indicator Lamp	LLD	N/A LLD	DI*2146-V*A	26180	959-149-30	
2146-VCS	959041-71					DI*2146-VCS*A	40650	959-150-57	
2146-V24	959041-70					DI*2146-V24*A	36718	959-149-88	
2147	003014-01	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2147*A	15168	911-352-11	32619R6
2147	003014-01	49/00	Front End Outline Lamp	G125	R5W	FE0*2147*A	25759	711-332-11	32017110
2148	003014-11	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2148*A	15170	911-352-12	32661R6
2146	003014-11	49/00	Front End Outline Lamp	G125	R5W	FE0*2148*A	25761	711-332-12	32001N0
2150	005603-00	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2150*A	15172	911-352-14	6R0142748
		49/00	Front End Outline Lamp	G125	R5W	FE0*2150*A	25763		
						12V Horiz	44206		
						24V Horiz	44192		
2151	959070-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Vert	44193	958-780-37	9060
						24V Vert	44194		
2151-H	959070-35								
2151-HCS	980607-00	-				FL*2151-H*A	36420	959-150-11	2a 01 E24 5850
2151-V	959070-25	- 6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	FL*2151-V*A	36421		9060
2151-VCS	980607-50	-				DI*2151-VCS*A	2a 01 E24 5850	959-150-56	2a 01 E24 5850
2153	006692-01	6/00:Cat 6	Supp. Side Direction Indicator Lamp	R1221	P21W	SDI*2153*B	30495	911-353-69	52621
2154	006692-02	6/00:Cat 6	Supp. Side Direction Indicator Lamp	R1221	P21W	SDI*2154*B	30497	911-353-70	52621
2155	008355-00	6/00:Cat 6	Supp. Side Direction Indicator Lamp	R1221	P21W	SDI*2155*A	30498	911-353-71	1059
2155CLR	008355-01	6/00:Cat 6	Supp. Side Direction Indicator Lamp	RY1221	PY21W	SDI*2155CLR*A	E1 011848	911-353-71	1848
2156	959075-50	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2156*A	26483	959-149-28	9074
2156-24V	959075-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2156-24V*A	26104	959-149-29	9074
		6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2158*A	31781		
2158	004119-02	6/00:Cat 5	Supp. Side Direction Indicator Lamp	R1221	P21W	SDI*2158*A	31802	911-353-78	536
		49/00	Front Position Lamp	W125	W5W	FP*2158*A	31807		
		6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2161*A	45443		
2161	980761-01	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633	958-780-73	0760
		6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2161*A	45443		
2161-CS	980761-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633	958-780-74	0760
2165	959932-50	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2165-*B	36056	959-150-06	9930
2167	959932-71	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2165-*B	36056	959-150-22	9930
2168	980888-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2168*A	46435		
2168-24V	980888-20	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2168-24V*A	46434	958-315-02	0880C
2BM 011 788-031	011788-03							HKG 460 903-	
2BM 011 788-021	011788-02	6/00:Cat 6	Supp. Side Direction Indicator Lamp	LED	N/A LED	N/A ECE	E11 6R-017506	61/11.13 Refer ADR 13/00	01 6 E11 7506
2205	345600-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A FOE	R02-E24 5881	Defer ADD 12/02	R02-E24
2305	3400UU-3U	47/00	Retro Reflector (Red/Rear)	N/A	N/A	N/A ECE	RUZ-EZ4 3881	Refer ADR 13/00	5881
2306	345600-31	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	R02-E24 5881	Refer ADR 13/00	R02-E24
		47/00	Retro Reflector (Red/Rear)	N/A	N/A				5881
2307 & HM2307 & HM2307D	959560-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307*A	25009	959-149-18	02 7574
2307GMD	959560-10	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307X*A	40680	959-150-81	9560

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2308	959 610-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	E47R 027597	959-149-20	E4 7R 02 7597
2309	959700-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RR*2309*A	31431	959-149-59	9700
2310	980855-30	/0/00	Rear Position Lamp or	LED	N/A LED	DD*2210*A	/F/21	050 700 71	0055
2310S	980855-31	49/00	Rear End Outline Lamp	LED	N/A LED	RR*2310*A	45631	958-780-71	0855
2311	980660-40	49/00	Rear Position Lamp or	LED	N/A LED	2311*RP*C	46859	958-780-71	6600
2311P	980660-42	47, 55	Rear End Outline Lamp				40007	700 700 71	
2312	980990-60	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2312*REOM*C	45945	958-780-91	0990
2314 & 2314PC	900739-11	49/00	Rear Position / Stop Lamp	L125/K1221	C5W/	RR*2314*A	15316	911-352-83	10833
2315	900741-22	47/00	real residenty Stop Earlip	LIZS/ ICIZZI	C21W	RR*2315*A	15310	911-352-84	
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577		
2317	959030-00	49/00	Stop : Horizontal	LED	N/A LED	ST*2317H*A	42579	959-149-05	9030
		49/00	Rear Position : Vertical	LED	N/A LED	RP*2317V*A	42578		
		49/00	Stop : Vertical	LED	N/A LED	ST*2317V*A	42582		
2318	980887-00	49/00	Stop Lamp	LED	N/A LED	SL*2318*A	46360	958-780-99	0880C
2310	700007-00	47/00	Rear Position Lamp	LLU	N/A LLD	RP*2318*A	46351	730-700-77	00000
2318-24V	000007.20	/0/00	Stop Lamp	LED	N/A LED	SL*2318-24V*A	46361	050 700 00	00000
2318-244	980887-20	49/00	Rear Position Lamp	··· LED	N/A LED	RP*2318-24V*A	46353	958-780-99	0880C
2210	010/// 02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2319*A	15149	011 252 17	012051
2319	910664-02	49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2319*A	15151	911-352-16	013051
22201 ED 11	22201 ED 11	/0/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	050 1/0 07	00/0
2320LED-H	2320LED-H	49/00	Rear Position Lamp	··· LED	N/A LED	RP*2332-H24*A	34502	959-149-87	9040
	050404-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2321*A	15327	044 050 04	
2321 & 2321PC	958606-00	49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2321*A	15328	911-352-91	HNZ01
2325	003014-05	49/00	Rear Position Lamp or Rear End Outline Lamp	L125	C5W	RR*2325*A	15252	911-352-21	0131418
			Rear Position: Horizontal			RP*2330H1*A	42558	959-149-00	
	0500/0.00	10100	Stop: Horizontal			ST*2330H1*A	42650		
2330	959060-00	49/00	Rear Position: Vertical	···· LED	N/A LED	RP*2330V1*A	42559	959-149-00	9060
			Stop: Vertical			ST*2330V1*A	42561		
	050.040.05	10100	Stop Lamp	. 55		SL*2330-H*A	36428		
2330-H	959-060-35	49/00	Rear Position Lamp	LED	N/A LED	RP*2330-H*A	36426		
			Stop Lamp			SL*2330-V*A	36429	959-150-12	9060
2330-V	959-060-25	49/00	Rear Position Lamp	LED	N/A LED	RP*2330-V*A	36427		
	050010.5	10.000	Stop Lamp	1.55	N/ ==	SL*2332-H24*A	34509	050 1/2 25	00/2
2332-H24	959040-5x	49/00	Rear Position Lamp	LED	N/A LED	RP*2332-H24*A	34502	959-149-87	9060
2222 1/27	0500/0.52	10/00	Stop Lamp	LED	N/4 1 55	SL*2332-V24*A	36722	050 1/0 07	00/0
2332-V24	959040-70	49/00	Rear Position Lamp	LED	N/A LED	RP*2332-V24*A	36721	959-149-87	9060
	05005/ 5-	10.000	Stop Lamp	1.55	N/ ==	SL*2334*A	26486	050 1/2 25	007
2334	959074-50	49/00	Rear Position Lamp	LED	N/A LED	RP*2334*A	26484	959-149-27	9074
	05005:	40.400	Stop Lamp	. 55		SL*2334-24V*A	26152	050 440	005/
2334-24V	959074-00	49/00	Rear Position Lamp	LED	N/A LED	RP*2334-24V*A	26151	959-149-27	9074
			Stop Lamp			ST*2361*A	45634		
2361	980760-01	49/00	Rear Position Lamp	LED	N/A LED	RP*2361*A	45632	958-780-75	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
			Stop Lamp			ST*2365*B	36250		
2365	959931-00	49/00	Rear Position Lamp	LED	N/A LED	RP*2365*B	36078	959-150-05	9930
			Stop Lamp			SL*2366*A	33196		
2366	959821-00	49/00	Rear Position Lamp	LED	N/A LED	RP*2366*A	33198	959-149-70	9020
			Stop Lamp			SL*2366-24V*A	30445		
2366-24V	959020-00	49/00	Rear Position Lamp	LED	N/A LED	RP*2366-24V*A	30443	959-149-52	9020
						2500 241 71			

80819-00 80819-02 80819-22 80710-01 80613-00 80613-20 80602-00 80602-00 80602-50 80603-51 80603-51 80603-55 80615-01 80615-05 80615-05 80615-02 15074-00	49/00 6/00:Cat2a 49/00 6/00:Cat2a 49/00 47/00 6/00:Cat2a 49/00 6/00:Cat2a 49/00 49/00 6/00:Cat2a 49/00 1/00 1/00	Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Retro Reflector (Red/Rear) Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp	LED  LED  LED  LED  LED  LED  LED  LED	N/A LED  N/A LED	ST*2365*B  RP*2365*B  N/A ECE  2377*RDI*C  2377*ST*C  2377*RP*C  2378*RDI*C  2378*ST*C  2378*RP*C  2378*97*A  DI*2379*A  DI*2379*A  SL*2379*A  RP*2379*A  RP*2379*A  RP*2379*A  RP*2379*A  RP*2380*A  RR*2380*A	36250 36078  E24 6R-01 5902  E24 7R-01 5902  45253 45256 45254 45255 45258 45260 45259 45257 30916 30919 30917 43630 43632 43631	959-150-20 958-315-70 958-780-66 958-780-63 958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	9930  0880H  0710   0710  9050  9050
80819-00 80819-22 80710-01 80613-00 80613-20 80602-00 80602-20 59050-40 80603-51 80603-51 80603-55 80615-01 80615-05 80615-02 15074-00	6/00:Cat2a 49/00 6/00:Cat2a 49/00 47/00 6/00:Cat 2a 49/00 6/00:Cat 2a 49/00 6/00:Cat 2a 49/00 1/00	Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Retro Reflector (Red/Rear) Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Rear Direction Indicator Lamp Rear Position Lamp	LED  N/A  LED  LED  LED  LED  LED	N/A LED  N/A  N/A LED  N/A LED  N/A LED  N/A LED  N/A LED	N/A ECE  2377*RDI*C  2377*RP*C  2377*RP*C  2378*RDI*C  2378*ST*C  2378*ST*C  2378*O7*RP*C  DI*2379*A  SL*2379*A  RP*2379*A  DI*2380*A  SL*2380*A  RP*2380*A	E24 6R-01 5902 E24 7R-01 5902 45253 45256 45254 45255 45258 45259 45257 30916 30919 30917 43630 43632 43631	958-315-70 958-780-66 958-780-63 958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	0880H  0710  0710  9050  9050
80819-22 80710-01 80613-00 80613-20 80602-00 80602-20 59050-40 80603-50 80603-51 80603-55 80615-01 80615-05 80615-02 15074-00	49/00 6/00:Cat2a 49/00 47/00 6/00:Cat 2a 49/00 6/00:Cat 2a 49/00 6/00:Cat 2a 49/00 1/00	Stop Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Retro Reflector (Red/Rear) Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp	LED  N/A  LED  LED  LED  LED  LED	N/A LED  N/A LED  N/A LED  N/A LED  N/A LED  N/A LED	2377*RDI*C 2377*ST*C 2377*RP*C 2377*RP*C 2378*RDI*C 2378*ST*C 2378*ST*C 2378*PP*C 2378*07*RP*C DI*2379*A SL*2379*A DI*2380*A SL*2380*A RP*2380*A	E247R-015902  45253  45256  45254  45255  45258  45259  45257  30916  30919  30917  43630  43632  43631	958-780-66 958-780-63 958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	0710 0710 9050
80613-00 80613-20 80602-00 80602-20 59050-00 59050-40 80603-51 80603-52 80603-55 80615-01 80615-05 80615-02 15074-00	6/00:Cat2a 49/00 47/00 6/00:Cat2a 49/00 6/00:Cat2a 49/00 49/00 6/00:Cat2a 49/00 1/00	Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Retro Reflector (Red/Rear) Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Rear Position Lamp Rear Position Lamp Rear Position Lamp	LED  N/A  LED  LED  LED  LED  LED	N/A LED  N/A LED  N/A LED  N/A LED  N/A LED  N/A LED	2377*RDI*C 2377*ST*C 2377*RP*C 2377*RP*C 2378*RDI*C 2378*ST*C 2378*ST*C 2378*PP*C 2378*07*RP*C DI*2379*A SL*2379*A DI*2380*A SL*2380*A RP*2380*A	45253 45256 45254 45255 45258 45260 45259 45257 30916 30919 30917 43630 43632 43631	958-780-66 958-780-63 958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	0710 0710 9050
80613-00 80613-20 80602-00 80602-20 59050-00 59050-40 80603-51 80603-52 80603-55 80615-01 80615-05 80615-02 15074-00	6/00:Cat2a 49/00 47/00 6/00:Cat2a 49/00 6/00:Cat2a 49/00 49/00 6/00:Cat2a 49/00 1/00	Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Retro Reflector (Red/Rear) Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Rear Direction Indicator Lamp Rear Position Lamp	N/A LED LED LED LED LED	N/A LED  N/A LED  N/A LED  N/A LED  N/A LED	2377*ST*C 2377*RP*C 2377*RP*C 2378*RDI*C 2378*ST*C 2378*O7*RP*C DI*2379*A SL*2379*A RP*2379*A DI*2380*A SL*2380*A RP*2380*A	45253 45256 45254 45255 45258 45260 45259 45257 30916 30919 30917 43630 43632 43631	958-780-63 958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	9050
80613-00 80613-20 80602-00 80602-20 59050-00 59050-40 80603-50 80603-51 80603-55 80603-55 80615-01 80615-05 80615-02 15074-00	49/00 47/00 6/00:Cat 2a 49/00 6/00:Cat 2a 49/00 49/00 6/00:Cat 2a 49/00 1/00	Stop Lamp Rear Position Lamp Retro Reflector (Red/Rear) Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Rear Direction Lamp Rear Direction Indicator Lamp Rear Direction Indicator Lamp Rear Direction Indicator Lamp Rear Position Lamp Rear Position Lamp	N/A LED LED LED LED LED	N/A LED  N/A LED  N/A LED  N/A LED  N/A LED	2377*ST*C 2377*RP*C 2377*RP*C 2378*RDI*C 2378*ST*C 2378*O7*RP*C DI*2379*A SL*2379*A RP*2379*A DI*2380*A SL*2380*A RP*2380*A	45256 45254 45255 45258 45260 45259 45257 30916 30919 30917 43630 43632 43631	958-780-63 958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	9050
80613-00 80613-20 80602-00 80602-20 59050-00 59050-40 80603-50 80603-51 80603-55 80603-55 80615-01 80615-05 80615-02 15074-00	47/00 6/00:Cat 2a 49/00 6/00:Cat 2a 49/00 49/00 6/00:Cat 2a 49/00 1/00	Rear Position Lamp Retro Reflector (Red/Rear) Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Rear Direction Indicator Lamp Rear Direction Indicator Lamp Rear Position Lamp Rear Position Lamp Rear Position Lamp	N/A LED LED LED LED LED	N/A LED  N/A LED  N/A LED  N/A LED  N/A LED	2377*RP*C 2377*RR*C 2378*RDI*C 2378*ST*C 2378*ST*C 2378*O7*RP*C DI*2379*A SL*2379*A RP*2379*A DI*2380*A SL*2380*A RP*2380*A	45254 45255 45258 45260 45259 45257 30916 30919 30917 43630 43632 43631	958-780-63 958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	9050
80613-00 80613-20 80602-00 80602-20 59050-00 59050-40 80603-50 80603-51 80603-55 80603-55 80615-01 80615-05 80615-02 15074-00	47/00 6/00:Cat 2a 49/00 6/00:Cat 2a 49/00 49/00 6/00:Cat 2a 49/00 1/00	Retro Reflector (Red/Rear) Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp	LED  LED  LED  LED	N/A LED  N/A LED  N/A LED  N/A LED  N/A LED	2377*RR*C 2378*RDI*C 2378*ST*C 2378*O7*RP*C DI*2379*A SL*2379*A DI*2380*A SL*2380*A RP*2380*A	45255 45258 45260 45259 45257 30916 30919 30917 43630 43632 43631	958-780-63 958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	9050
80613-20 80602-00 80602-20 59050-00 59050-40 80603-50 80603-51 80603-55 80603-55 80615-01 80615-05 80615-02	6/00:Cat 2a 49/00 6/00:Cat 2a 49/00 49/00 6/00:Cat 2a 49/00	Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp	LED  LED  LED  LED	N/A LED  N/A LED  N/A LED  N/A LED  N/A LED	2378*RDI*C 2378*ST*C 2378*RP*C 2378*07*RP*C DI*2379*A SL*2379*A DI*2380*A SL*2380*A RP*2380*A	45258 45260 45259 45257 30916 30919 30917 43630 43632 43631	958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	9050
80613-20 80602-00 80602-20 59050-00 59050-40 80603-50 80603-51 80603-55 80603-55 80615-01 80615-05 80615-02	49/00 6/00:Cat 2a 49/00 49/00 6/00:Cat 2a 49/00	Stop Lamp Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp	LED  LED  LED  LED	N/A LED  N/A LED  N/A LED	2378*ST*C 2378*RP*C 2378*07*RP*C DI*2379*A SL*2379*A DI*2380*A SL*2380*A RP*2380*A	45260 45259 45257 30916 30919 30917 43630 43632 43631	958-780-64 958-780-65 958-780-68 959-149-47 959-150-55	9050
80602-00 80602-20 59050-00 59050-40 80603-50 80603-52 80603-55 80615-01 80615-05 80615-02 15074-00	6/00:Cat 2a 49/00 49/00 6/00:Cat 2a 49/00	Rear Position Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp	LED LED LED	N/A LED N/A LED N/A LED	2378*RP*C 2378*07*RP*C DI*2379*A SL*2379*A RP*2379*A DI*2380*A SL*2380*A RP*2380*A	45259 45257 30916 30919 30917 43630 43632 43631	958-780-65 958-780-68 959-149-47 959-150-55	9050
80602-20 59050-00 59050-40 80603-50 80603-51 80603-52 80603-55 80615-01 80615-05 80615-02	6/00:Cat 2a 49/00 49/00 6/00:Cat 2a 49/00	Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp	LED LED LED	N/A LED N/A LED N/A LED	2378*07*RP*C DI*2379*A SL*2379*A RP*2379*A DI*2380*A SL*2380*A RP*2380*A	45257 30916 30919 30917 43630 43632 43631	958-780-68 959-149-47 959-150-55	9050
59050-00 59050-40 80603-50 80603-51 80603-52 80603-55 80615-01 80615-05 80615-02 15074-00	49/00 49/00 6/00:Cat 2a 49/00	Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Rear Position Lamp	LED LED	N/A LED N/A LED	DI*2379*A SL*2379*A RP*2379*A DI*2380*A SL*2380*A RP*2380*A	30916 30919 30917 43630 43632 43631	959-149-47 959-150-55	9050
59050-40 80603-50 80603-51 80603-52 80603-55 80615-01 80615-05 80615-02 15074-00	49/00 49/00 6/00:Cat 2a 49/00	Stop Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Reversing Lamp	LED LED	N/A LED N/A LED	SL*2379*A RP*2379*A DI*2380*A SL*2380*A RP*2380*A	30919 30917 43630 43632 43631	959-150-55	9050
59050-40 80603-50 80603-51 80603-52 80603-55 80615-01 80615-05 80615-02 15074-00	49/00 6/00:Cat 2a 49/00	Stop Lamp Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Reversing Lamp	LED LED	N/A LED	SL*2379*A RP*2379*A DI*2380*A SL*2380*A RP*2380*A	30917 43630 43632 43631	959-150-55	9050
80603-50 80603-51 80603-52 80603-55 80603-55 80615-01 80615-05 80615-02	49/00 6/00:Cat 2a 49/00	Rear Position Lamp Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Reversing Lamp	LED	N/A LED	RP*2379*A DI*2380*A SL*2380*A RP*2380*A	30917 43630 43632 43631		
80603-50 80603-51 80603-52 80603-55 80603-55 80615-01 80615-05 80615-02	6/00:Cat 2a 49/00	Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp Reversing Lamp			DI*2380*A SL*2380*A RP*2380*A	43630 43632 43631		
80603-51 80603-52 80603-55 80615-01 80615-05 80615-02 15074-00	49/00	Stop Lamp Rear Position Lamp Reversing Lamp	LED	N/A LED	SL*2380*A RP*2380*A	43632 43631	958-780-05	QUEO
80603-52 80603-55 80615-01 80615-05 80615-02 15074-00	1/00	Rear Position Lamp  Reversing Lamp	LED	N/A LED	RP*2380*A	43631	958-780-05	9050
80603-55 80615-01 80615-05 80615-02 15074-00		Reversing Lamp	LED	N/A LED				9050
80615-01 80615-05 80615-02 15074-00			LED	N/A LED	RL*2380*A	43628		
80615-05 80615-02 15074-00					RL*2380*A	43628		9050
80615-02 15074-00	47/00	D. D. C. (5.15.)				43628	958-780-35	
15074-00	47/00	B. B						
	47/00							
15074-10		Retro Reflector (Red/Rear)	N/A	N/A	12V-DURA-47A	50198	460-965-10	
	47/00	Retro Reflector (Red/Rear)	N/A	N/A	12V-DURA-47B	50198		
015075-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V-DURA-06A	50201		
	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	24V-DURA-06A	50204		0710
	49/00	Stop/Rear Position Lamp	LED	N/A LED	12V-DURA-49A	50200		
	49/00	Stop/Rear Position Lamp	LED	N/A LED	24V-DURA-49A	50203		
	1/00	Reversing Lamp	LED	N/A LED	12V-DURA-01A	50199		
	1/00	Reversing Lamp	LED	N/A LED	24V-DURA-01A	50202		
80613-51	6/00:Cat 2a	Rear Direction Indicator Lamp				E24 6R-015894	958-315-28	
980602-51	49/00	Stop Lamp	LED	N/A LED	N/A ECE	E2/, 7D 02500/.	958-315-27	0710
	49/00	Rear Position Lamp				L24 /N-023074		
	1/00	Reversing Lamp				E24 23R-005894		
003014-14	48/00	Licence Plate Lamp	L125	C5W	LP*2384*A	15175	911-352-30	_
	49/00	Rear Position / Stop Lamp	L125/R1221	C5W/ P21W	RR*2384*A	15167		231453
050010 57	10/22	Stop Lamp	1.50	N1/* : ==	SL*2390*A	30651	050 410 5:	0010
59010-00	49/00	Rear Position Lamp	LED	N/A LED	RP*2390*A	30650	959-149-51	9010
980980-00	1/00	Reversing Lamp		N/A LED	2391*RV*C	45251	958-780-58	
	6/00:Cat 2a	Rear Direction Indicator Lamp			2391*RDI*C	45258		0980
		Stop Lamp	LED		2391*ST*C	45262		
	49/00	Rear Position Lamp			2391*RP*C	45261		
	47/00	Retro Reflector (Red/Rear)	N/A	N/A		45250		
80980-01								
80980-02				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			958-780-59	0980
760760-02	_, co.sur _u			N/A I ED				
	49/00		LLU	N/A LED				
	17/00		NI /A	NI/A				
804 030 590 809	502-51 014-14 010-00 980-00	613-51 6/00:Cat 2a 49/00 49/00 1/00 48/00 014-14 49/00 1/00 1/00 6/00:Cat 2a 49/00 47/00 47/00 780-01 1/00 6/00:Cat 2a	6/3-51   6/00:Cat 2a   Rear Direction Indicator Lamp     49/00   Stop Lamp     49/00   Rear Position Lamp     1/00   Reversing Lamp     48/00   Licence Plate Lamp     014-14   49/00   Rear Position / Stop Lamp     1/00   Reversing Lamp     1/00   Reversing Lamp     6/00:Cat 2a   Rear Direction Indicator Lamp     880-00   49/00   Retro Reflector (Red/Rear)     780-01   1/00   Reversing Lamp     890-02   6/00:Cat 2a   Rear Direction Indicator Lamp     890-03   6/00:Cat 2a   Rear Direction Indicator Lamp     890-04   6/00:Cat 2a   Rear Direction Indicator Lamp     890-05   6/00:Cat 2a   Rear Direction Indicator Lamp     890-06   49/00   Reversing Lamp     890-07   49/00   Rear Position Lamp     49/00   Rear Position Lamp     49/00   Rear Position Lamp     49/00   Rear Position Lamp     49/00   Retro Reflector (Red/Rear)	6/3-51   6/00:Cat 2a   Rear Direction Indicator Lamp   LED	613-51   6/00:Cat 2a   Rear Direction Indicator Lamp   LED   N/A LED	A	100   Reversing Lamp   LED   N/A LED   Step Lamp   E24 6R-015894	613-51   6/00:Cat 2a   Rear Direction Indicator Lamp   E24 6R-015894   958-315-28     49/00

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HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
<b>2394</b> 980720-00		6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2394*B	42034		
	000000000	49/00	Stop Lamp	 LED	N/A LED	SL*2394*A	42037		
	49/00	Rear Position Lamp			RP*2394*A	42036	980-703-20	0720	
	47/00	Retro Reflector (Red/Rear)	N/A	N/A	2395*RR*C	46508			
		6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2395*B	42030		
2395 980720-40		-	Stop Lamp	LED	N/A LED	SL*2395*C	42179	980 703-21	0720
	980720-40	49/00	Rear Position Lamp			RP*2395*C	42178		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2395*RR*C	46508		
		48/00	Licence Plate Lamp	LED	N/A LED	LP*2395*C	42175		
2399		6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2399*A	37114	959-150-30	9010
	959010-20		Stop Lamp	LED	N/A LED	SL*2399*A	37116		
		49/00	Rear Position Lamp			RP*2399*A	37115		
		1/00	Reversing Lamp	R1221	P21W	RL*2414*A	29428	911-353-56	9385/9531
		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426		
2414	604011	49/00	Stop Lamp	R1221	P21W	SL*2414*A	29429		
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		
		1/00					29428		
			Reversing Lamp	R1221	P21W	RL*2414*A			9385/9531
2415	604012	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426	911-353-57	
		49/00	Stop Lamp	R1221	P21W	SL*2414*A	29429		
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		
		6/00:Cat2a				12V Horiz	44203		9030
			Rear Direction Indicator Lamp	LED	N/A LED	24V Horiz	44204	959-150-39	
						12V Vert	44205		
						24V Vert	44209		
2416LED	2416LED	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position : Horizontal			RP*2317H*A	42577		
		49/00	Stop : Horizontal	·· LED	N/A LED	ST*2317H*A	42579		
		49/00	Rear Position : Vertical			RP*2317V*A	42578		
		49/00	Stop : Vertical			ST*2317V*A	42582		
<b>2419</b> 00		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2419*A	15160	911-352-42	7R0153253
	003184-03	49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2419*A	15161		
<b>2420</b> 00318		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2420*A	15223	911-352-43	7R0153253
	003184-10	48/00	Licence Plate Lamp	G1210	R10W	LP*2420*A	15159		
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2420*A	15222		
<b>2422</b> 958562-0		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2422*A	15320	911-352-81	HNZ01
	958562-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2422*A	15324		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2422*A	15323		
2422LED		6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	959-150-38	9030
						24V Horiz	44204		
						12V Vert	44205		
						24V Vert	44209		
	2422LED	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
			Rear Position : Horizontal	LED		RP*2317H*A	42577		
		49/00	Stop : Horizontal			ST*2317H*A	42579		
			Rear Position : Vertical		N/A LED	RP*2317V*A	42578		
			Stop: Vertical			ST*2317V*A	42582		
2423 958616		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2423*A	15338	911-352-92	HNZ01
	958616-00	47/00	Retro Reflector (Red/Rear)	•					
	7J0010-UU	49/00		N/A C1221/EV	N/A P21W/5W	RE*2423*A	15339		
		47/00	Rear Position / Stop Lamp	S1221/5V	FZIVV/DVV	RR*2423*A	15340		

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2424*A	15342		
2424	958616-01	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2424*A	15343	911-352-93	HNZ01
	730010 01	49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2424*A	15344	711 332 73	1114201
		1/00	Reversing Lamp	R1221	P21W	RL*2424*A	15341		
		1/00	Reversing Lamp	R1221	P21W	RL*2424*A	15341	911-352-93	HNZ01
2/2/LED II	2/2/150 11	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	
2424LED-H	2424LED-H	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	050.440.05	9040
		49/00	Rear Position Lamp			RP*2332-H24*A	34502	959-149-87	
		6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	
2426-H	959-040-801	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509		9040
		49/00	Rear Position Lamp			RP*2332-H24*A	34502	959-149-87	
		6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-V24*A	36718	959-149-88	
2426-V	959-040-901	49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722		9040
		49/00	Rear Position Lamp			RP*2332-V24*A	36721	959-149-87	
		6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	
2427-H	959-040-811	49/00	Stop Lamp	 LED	N/A LED	SL*2332-H24*A	34509	707 147 00	9040
2427-11	737-040-011	49/00	Rear Position Lamp		N/A LLD	RP*2332-H24*A	34502	959-149-87	7040
								050 1/0 00	
0.405.14	050 070 011	6/00:Cat2a	Rear Direction Indicator Lamp		NIALED	DI*2146-V24*A	36718	959-149-88	
2427-V	959-040-911	49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	959-149-87	9040
		49/00	Rear Position Lamp			RP*2332-V24*A	36721	_	
		1/00	Reversing Lamp			RL*1446-H*A	35980	959-149-95	
2428-H	959-041-811	6/00:Cat2a	Rear Direction Indicator Lamp	······ LED	N/A LED	DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp			SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
		1/00	Reversing Lamp			RL*1446-V*A	36243	959-149-95	
2428-V	959-041-911	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-V24*A	36718	959-149-88	9040
2428-V	939-041-911	49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	050 140 05	7040
		49/00	Rear Position Lamp			RP*2332-V24*A	36721	959-149-87	
2429	980760-80	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2161*A	45443		
			Stop Lamp	LED	N/A/LED	ST*2361*A	45634	958-780-73/74	
2429-CS	980761-80	49/00	Rear Position Lamp			RP*2361*A	45632	958-780-75	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2430	980760-80	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2161*A	45443	958-780-73/74	
2430-CS	980761-80	49/00	Stop Lamp	LED	N/A/LED	ST*2361*A	45634		
		49/00	Rear Position Lamp			RP*2361*A	45632	958-780-75	0760
2430DTCS	980761-94	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2431	980760-82	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2161*A	45443	958-780-73/74	
2431-CS	980761-82	49/00	Stop Lamp			ST*2361*A	45634	,30 700-73/74	
-401-03	700701=02	49/00	Rear Position Lamp	LED	N/A/LED	RP*2361*A	45632	958-780-75	0760
2431DTCS	980761-95	1/00	Reversing Lamp			***************************************	45632		
24310105	780/61-75			N1/A	N1/A	RL*1461*A		958-780-72	
	054040.00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633	244 252 45	
2553	951068-02	48/00	Licence Plate Lamp	G1210	R10W	LP*2553*A	15150	911-352-47	E1 22819
2555	001389-10	48/00	Licence Plate Lamp	L125	C5W	LP*2555*A	15156	911-352-49	12815R4
2557	900967-03	48/00	Licence Plate Lamp	HL124	T4W (2 Pieces)	LP*2557*A	15207	911-352-50	4151
2559	959640-00	48/00	Licence Plate Lamp	LED	N/A LED	LP*2559S*A	42545	959-149-35	9590
2559-1	959640-30	48/00	Licence Plate Lamp	LED	N/A LED	LP*2559H*A	41602	980-703-00	9640
2560	980869-00	48/00	Licence Plate Lamp	LED	N/A LED	2560*LP*C	46799	958-315-24	0855
2902	002016-11	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2902*A	15180	911-352-51	0231290
2915	002014-23	47/00	Retro Reflector (Red/Rear)	N/A	N/A	N/A/ECE	E243R020030	911-352/3-55/50	020030
2916	002014-25	47/00	Retro Reflector (Amber/Side)	N/A	N/A	N/A/ECE	E243R020030	911-352/3-56/48	020030

### **ADR & CRN REFERENCE GUIDE**

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2917	002014-24	47/00	Retro Reflector (White/Front)	N/A	N/A	N/A/ECE	E243R020030	911-352/3-57/49	020030
2919	004412-00	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2919*A	15233	911-352/3-58/48	02338
2920	004412-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2920*A	15294	911-352/3-70/50	02338
2921	004412-01	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2921*A	15293	911-352/3-71/49	02338
2922	003326-04	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2922*A	15237	911-352/3-59/48	0292031
2922-2/200	003326-01	47/00	Retro Reflector (Amber/Side)	N/A	N/A	N/A/ECE	E1 02 21395 R 3	911-352/3-59/48	0292031
2923	003326-03	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2923*A	15296	911-352/3-72/50	0292031
2923-2BULK	003326-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	N/A/ECE	E1 02 21395 R 3	HKG & ADR13/00	E1 0221395
2924	003326-05	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2924*A	15295	911-352/3-73/49	0292031
2924-2BULK	003326-02	47/00	Retro Reflector (White/Front)	N/A	N/A	N/A/ECE	E1 02 21395 R 3	HKG & ADR13/00	E1 0221395
2925	004713-00	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2925*A	15234	911-352/3-60/48	02353
2926	342007-10	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2926*A	15298	911-352/3-74/50	02353
2927	342007-20	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2927*A	15297	911-352/3-75/49	02353
2934-H	980565-10	47/00	Retro Reflector (Red /Rear)	N/A	N/A	RE*2934-H*A	38243	959-150-34	5651
2934-V	980565-50	47/00	Retro Reflector (Red /Rear)	N/A	N/A	RE*2934-V*A	38244	959-150-34	5655
5237	959190-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5237*B	15350	911-352-64A	523
5238	959191-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5238*B	15349	911-352-65A	523
5239	959192-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5239*B	15351	911-352-66A	523
5243	959071-53	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	8-5243-08	23071	959-089-01	27547
5245	980887-30	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	5245*12*ST*C	45934	050 500 00	00004
5245-24V	980887-40	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	5245*24*ST*C	45935	- 958-780-83	A0880
	200005 01	46/00	Headlamp	XD1260/55	H4	HL*5604*A	15098	044 054 45	
5604	002395-84	49/00	Front Position Lamp	HL124	T4W	FP*5604*A	15099	911-351-17	53
5605	114155-00	46/00	Headlamp	C1255	H1	HL*5605*A	15100	911-351-14	14464R8
	11/150.00	46/00	Headlamp	C1255	H1	HL*5606*A	15101	011 051 15	707/D0
5606	114178-00	49/00	Front Position Lamp	HL124	T4W	FP*5606*A	15102	911-351-15	7076R8

### **ADR & CRN REFERENCE GUIDE**

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
5607	009599-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*5607*B	39474	911-355-15	2372
5608	009496-81	76/00	Daytime Running Lamp	LED	N/A LED	DRL*5608*B	39475	911-355-16	2344
5610	010043-08	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E1 2578 00RL 02A	HKG 460 895-18 & ADR 13/00	E1 2578 00RL 02A
F./44	000050.07	46/00	Headlamp	XD1260/55	H4	HL*5611*A	15086	011 051 17	15001500
5611	002850-06	49/00	Front Position Lamp	HL124	T4W	FP*5611*A	15087	911-351-16	17031R20
5613	008283-01	46/00	High Beam Headlamp	CA1255	H7	HL*1322*A	26822	911-353-44	041210
5614	008283-00	50/00	Front Fog Lamp	CA1255	H7	FF*1122*A	26829	911-353-45	021209
5615	008284-01	46/00	High Beam Headlamp	CA1255	H7	HL*1323*A	26823	911-353-46	041212
5616	008284-00	50/00	Front Fog Lamp	CA1255	H7	FF*1123*A	26830	911-353-47	021211
5617	980670-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R- 000002	980-703-10	E24 0002 (0670)
5618	980680-80	7//00	Davidiana Duraniana Laura	LED	N/A LED	NI/A FOF	E2487R-	980-703-12	E24 0001
5618-24V	980680-85	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	000001	980-703-24	(0680)
5619	980880-80	7//00	Davidiana Dunaria a Laura	LED	N/A LED	DRL*1009*A	44200	050 700 27	0000
5619-24V	980880-85	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1009-24V*A	44202	958-780-26	0880
5619V	980880-90	7//00	Davidiana Duraniana Laura	LED	N/A LED	1009V*DRL*C	45962	050 700 00	0000 D
5619V-24V	980880-95	76/00	Daytime Running Lamp	LED	N/A LED	1009V-24V*DRL*C	45965	958-780-98	0880 B
5630	980860-84	B//00			NI/A LED	N/4 F0F	E0./ 000 0050./0	050 800 10	F0/ F0/0
5630-24V	980860-87	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-005863	958-780-18	E24 5863
5631	980850-84	E. 100	2 2	. 50				252 522 42	5015010
5631-24V	980850-87	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-005862	958-780-19	E24 5862
5632	956330-00	50/00	Front Fog Lamp	YC1255	Н3	FF*5632*A	15128	911-351-29	8361
5636	980970-80	B. (00	D .: D .: 1		NALED	DRL*1013*A	44776	050 500 50	0050
5636-24V	980970-85	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1013-24V*A	44783	958-780-52	0970
5641	005750-04	50/00	Front Fog Lamp	YC1255	Н3	FF*5641*A	15138	911-351-30	18213R19
5643	005700-02	50/00	Front Fog Lamp	YC1255	H3	FF*5643*A	15135	911-351-31	18216R19
5645	005860-00	50/00	Front Fog Lamp	YC1255	Н3	FF*5645*A	15219	911-351-32	18227
5647	008090-00	50/00	Front Fog Lamp	YC1255	Н3	FF*1115*A	28414	911-353-38	02 B E1 877
9.1358.01	002659-07	46/00	High Beam Headlamp	YC1255	НЗ	HL*1358*A	15112	911-351-50	14529

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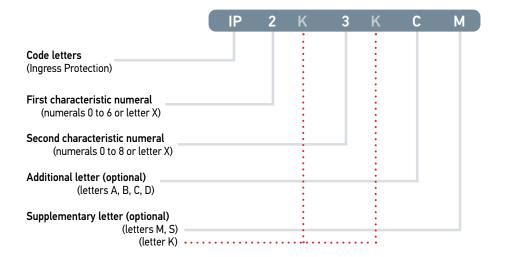
## Ingress Protection (IP) Rating

# Construction and meaning of the IP Rating

(optional)

S

K



Ingress Protection: Overview of the Elements of the IP Rating								
Element	Numeral / Letter	Protection of electrical equipment	Protection of persons					
First characteristic numeral / supplementary		Protection against the ingress of solid foreign objects (including dust):	Protection against access to hazardous parts (unless described by extra letters):					
letter	0	Not protected	Not protected					
	1	With size ≥ 50mm	With back of hand					
	2	With size ≥ 12.5mm	With finger					
	3	With size ≥ 2.5mm	With tool					
	4	With size ≥ 1mm	With wire					
	5K	Dust-protected	With wire					
	6K	Dust-tight	With wire					
Second characteristic		Protection against the ingress of water:						
numeral / supplementary	0	Not protected						
letter	1	Vertical dripping						
	2	Dripping (inclined 15°)						
	3	Spraying						
	4	Splashing						
	4K	Same with increased pressure						
	5	Jetting						
	6	Powerful jetting						
	6K	Same at increased pressure						
	7	Temporary immersion						
	8	Continuous immersion						
	9K	High-pressure/steam jet cleaning						
Additional letter (optional)		Meaning for the protection of electrical equipment	Protection against access to hazardous parts (unless described by first characteristic					
			numeral):					
	A		With back of hand					
	В		With finger					
	С		With tool					
	D		With wire					
Supplementary letter	M	Movement of moving parts during water test						

Standstill of moving parts during water test

Specifically for the electrical equipment in

road vehicles

### **Warranty Information**

### STATEMENT OF WARRANTY

HELLA Australia Pty Ltd warrants all products from the date of purchase to an end-user for the first time and covers defects in materials and/or workmanship only, provided that the product is installed in accordance with our mounting instructions and by a qualified professional.

The benefits given by our warranty are in addition to other rights and remedies of consumers under law in relation to the products of which our warranty relates; and

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

#### **WARRANTY PERIODS**

Please refer to the general terms and conditions on our website www.hella.com.au for up to date information on specific warranty periods and conditions that may apply.

### **LIMITATION OF LIABILITY**

HELLA Australia Pty Ltd liability is limited to repair, replace or settle by credit note at the discretion of HELLA Australia Pty Ltd.

The goods are supplied strictly on the terms and subject to the condition that the buyer has satisfied itself of their suitability for its intended purpose.

Information supplied and printed in catalogues, specifications or other details on the product shall not constitute guarantees for condition or durability.

This warranty does not cover:

- Any labour costs incurred in diagnosis, troubleshooting, removal or reinstallation of the product and failures related to installation nor does it cover any consequential damage, indirect or special loss (whether for loss of profit or otherwise) and damage or injury of any kind.
- Any expenses associated with the handling of claims.

- Claims that are attributable to the non-compliance of the vehicle manufacturer's production specifications, maintenance and or service policies.
- Claims as a result of any modifications and alterations to the product.
- Claims as a result of non-compliance to the assembly, service and operating instructions and/or any unfit or improper use, and/or wrong or negligent treatment, and/or normal wear and tear, contamination, results from accidents, insufficient or excessive electrical supply, subject to undue environmental conditions, accident or improper application.
- Railway applications.

### **CLAIMS SUBMISSION**

When a HELLA product is suspected to be defective, the enduser must stop using the product and contact the original place of purchase or HELLA Australia Pty Ltd (contact details below) and provide the proof of purchase and a description of the defect. The end-user shall also promptly provide further information that may be requested with respect to the claim. The credits officer will register the claim, organise pickup of the goods and a copy of the claim will be sent to the customer, this must be attached to the goods when returned to HELLA Australia Pty Ltd head office for assessment.

### HELLA Australia Pty. Ltd.

4 Hargrave Place, Mentone, VIC 3194, Australia Phone: 1800 061 729 www.hella.com.au

### **GENERAL DISCLAIMER**

The illustrations, information and specifications presented and referred to in this catalogue are correct at the time of printing. HELLA Australia reserves the right, subject to all applicable laws, at any time, at its discretion and without notice to discontinue or change the specifications or design of any product referred to herein.

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