



EMERGENCY VEHICLES



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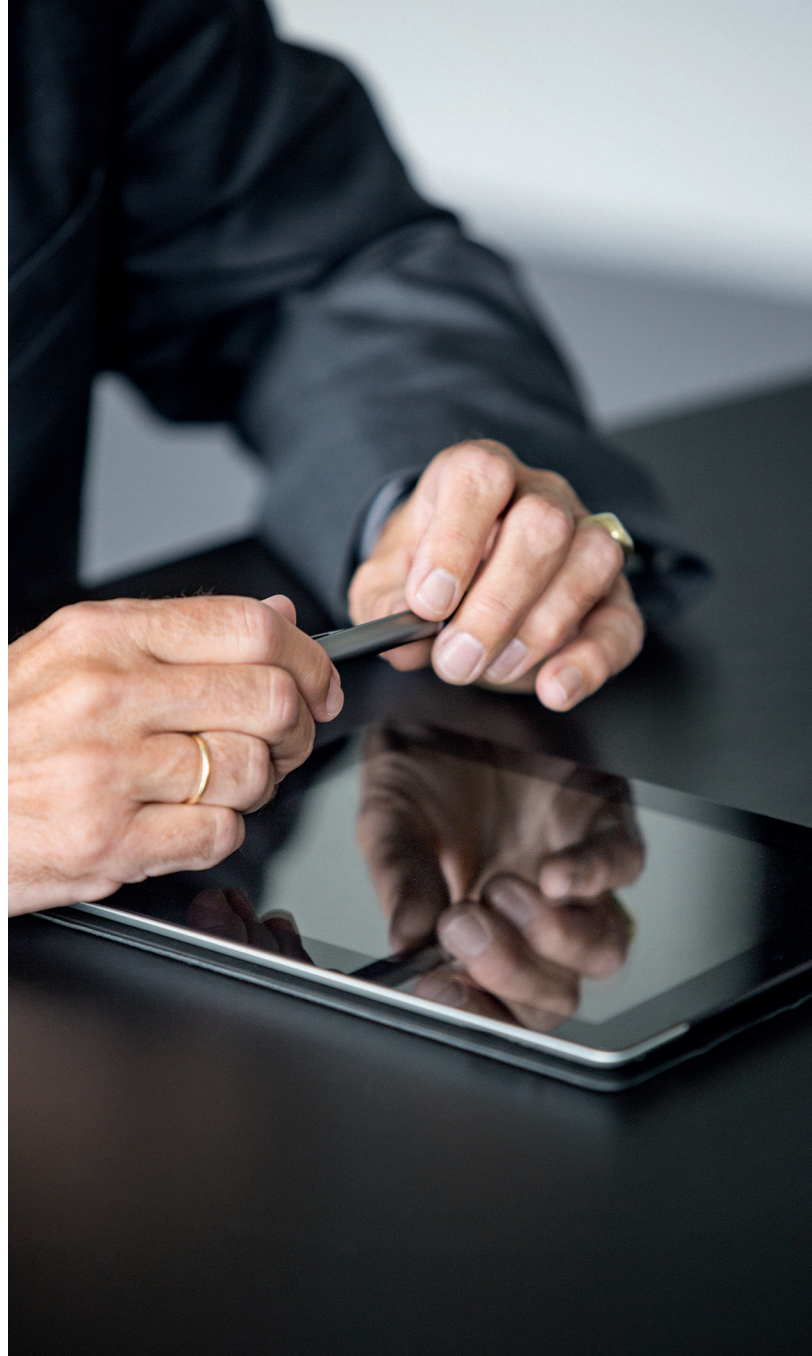
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RESEARCH AND DEVELOPMENT

As one of the world's leading automotive suppliers, HELLA has been shaping the industry with innovative lighting systems and vehicle electronics since 1899. Over the decades, a lot has changed and developed - new lighting technologies arrived on the scene and with them new products and new possibilities.

Furthermore, the company is one of the most important partners of the spare parts trade and of independent workshops and it also develops solutions for special vehicles. From cars through motorhomes and construction machinery right up to emergency vehicles, we have the right products for every application.

Individual, and to a certain extent, customised solutions and design aspects also play a major role for our developers. Because we work in direct contact together with our customers, we always find the best option for their needs. Every day 36,000 employees around the world, with the full force of their passion, know-how and innovative creativity, strive to achieve this result. Almost 8,000 of these work in research and development.



And this is what drives us on: the wish to shape the mobility of tomorrow and to propel key market trends. The issues we view here, above all else, are autonomous driving, efficiency and electrification. We are constantly gaining new insights thanks to work performed in our own research laboratories, to the carrying out of special test procedures and also to the construction of prototypes. In addition, we are constantly working on the comfort and design of our products while driving forward other topics of the future such as connectivity, digitalisation and indeed individualisation. Consistently high investments maintain and expand the company's technological edge.



Our high standards of quality ensure durable and reliable products, customer support through our international sales network ensures excellent accessibility and our research and development experts ensure that we are constantly evolving.

KEY OF ICONS



ECE

This product is tested in line with ECE guidelines.

Further information about the ECE Type approvals can be found on the relevant products.



Bipolarity of the lamps

Even if the connecting cable is fitted the wrong way round, the LED still functions fully.

The semiconductor in an LED must always be operated with the specified polarity only. Incorrect polarity will damage the LED so for that reason LED lamps are generally equipped with polarity reversal protection (diode). However, this function only works if "+" and "-" are connected correctly. If a lamp has a bipolar circuit, its functioning is independent of the contact connections. This then ensures that poka yoke (avoidance of faulty mounting) is present in connection with, for example, indentation clamping technology. However, the additional components on the printed circuit board increase the cost outlay.



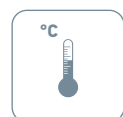
SAE

Product has SAE type approval.



Vehicle electrical system voltage

Defines the power supply of the lamp. This can be 12 V, 24 V or a flexible voltage range for multi-voltage (8 – 33 V).



Operating temperature

Thermal management and an optimised housing design guarantee full functioning for all operating temperatures as a result of product testing ranging from -40° C to +60° C.



Polarity reversal protection

Even if the connecting cable is connected with reverse polarity, there is still no danger to the electronics.



Dust and water protection class - IP

International Protection (IP) according to DIN 40050, Part 9.



Electromagnetic compatibility

Electromagnetic compatibility (EMC) tested and EU type approval issued.

If the lamp is not designed and constructed according to EMC specifications, and thus is not certified, then interactions between it and other safety-relevant electronic systems may occur.



Overvoltage protection

Supplement to the electronics for protecting the LED against high voltage/current in the vehicle network as per ISO 7637-2.

The LEDs can become overloaded by increased voltage peaks in vehicles as a result of the following:

- Starting aid
- Defective control units
- Load dump impulse (faulty battery contact)

Such peaks stress/damage the LEDs, a situation which can lead to function failure or to a reduction of product lifetime. Complementing the circuit with appropriate components protects the circuit and can extend lifetime or even prevent failure.



ECE-R65

Defines the light values to be achieved, the light distribution and also colour location of beacons. Only beacons that fulfil ECE-R65 can be used on public roads.



Approved for dangerous goods transport

Lamp approved for dangerous goods transport in accordance with the European Agreement Concerning International Carriage of Dangerous Goods by Road (ADR; in German: GGVS).

IP PROTECTION CLASSES

How well a product is protected from environmental influences can have a significant impact on its lifetime. The products are exposed to dust, water and other contaminants. The degree of protection shown indicates which product is suitable for which application or use.

PROTECTION CLASS IP 5K4K

Dust may only penetrate to such an extent that function and safety are not impaired. Water that is sprayed against the housing from every direction at increased pressure must not have any damaging effect; the water pressure is approx. 4 bar.

PROTECTION CLASS IP 5K9K

Dust may only penetrate to such an extent that function and safety are not impaired. Water that is directed onto the housing using high pressure/steamjet equipment must not have any harmful effects; water pressure approx. 100 bar.

PROTECTION CLASS IP 6K4K

Dust must not penetrate. Water that is sprayed against the housing from every direction at increased pressure must not have any damaging effect; water pressure is approx. 4 bar.

PROTECTION CLASS IP 67

Dust must not penetrate. Even during temporary immersion, no water is to penetrate.

PROTECTION CLASS IP 6K9K

Dust must not penetrate. Water that is directed onto the housing using high pressure/steamjet equipment must not have any harmful effects; water pressure approx. 100 bar.

General overview

K= Denotes tests for road vehicle equipment.

Protection against penetration of foreign material (including dust)

First number

0	No special protection
1	Solids ≥ 50 mm
2	Solids ≥ 12.5 mm
3	Solids ≥ 2.5 mm
4	Solids ≥ 1.0 mm
5K or 5	Dust protected
6K or 6	Dustproof

Protection against ingress of water

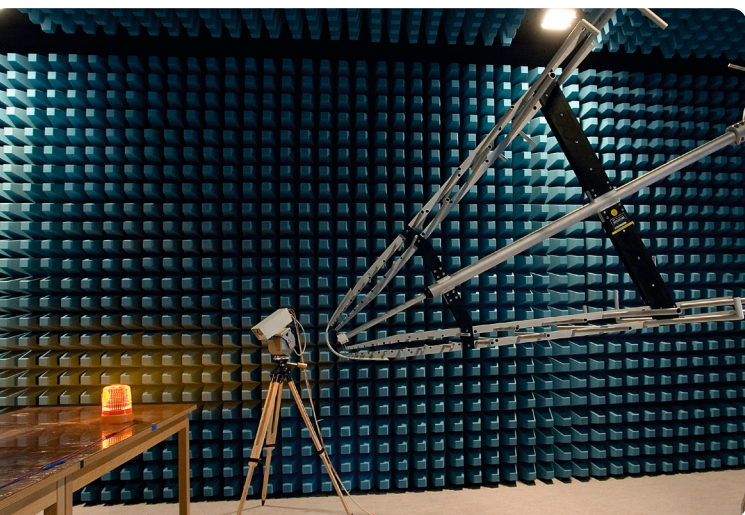
Second number

0	No special protection
1	Vertically falling drops of water
2	Water dropping up to an angle of 15°
3	Water dropping up to an angle of 60°
4	Drops of water from all directions
4K	Identical to 4 but at increased pressure
5	Water jet from a nozzle
6	Identical to 5 but at increased pressure
7	Temporary immersion in water
8	Sustained immersion in water
9K	Cleaning under extremely high pressure

QUALITY

Water and dust test

Our products undergo series of tests checking for ingress of water and dust. Each relevant protection class (IP protection class) can be found in the product details.



Electromagnetic compatibility (EMC)

Interference from other devices or radio waves is not to be expected with our products. We pay attention to the ensuring of electromagnetic compatibility and we protect all installed electronics equipment.

Thermal tests

All HELLA products undergo a series of thermal tests and are specially developed to withstand temperature shocks or fluctuations without any problems.



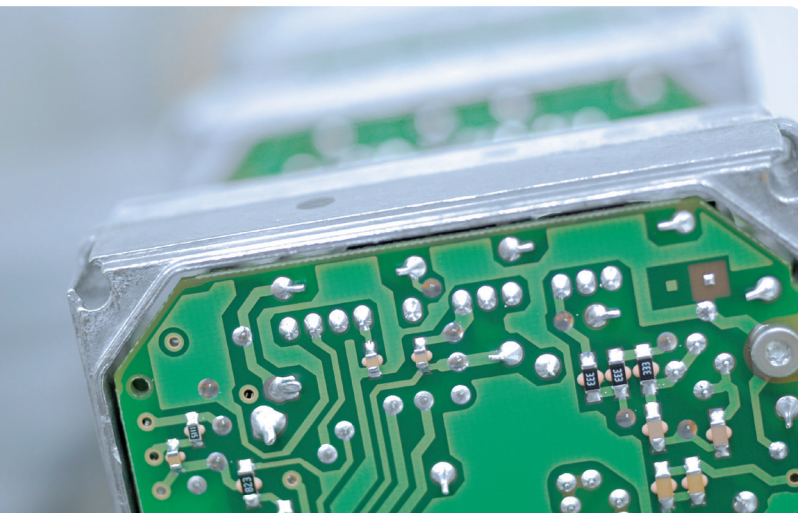
Lifetime tests

Long-term tests of the products in simulated continuous operation enable us to make precise and reliable statements about the lifetime of our product range.



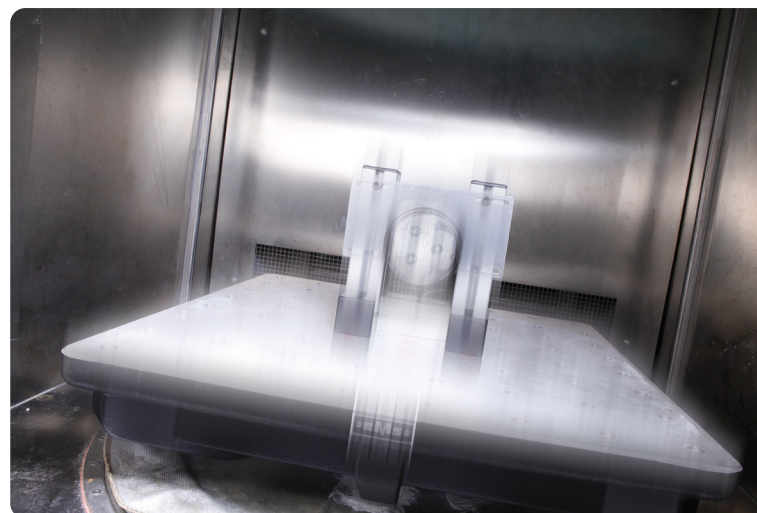
Electronic tests

In order to prevent short circuiting and the associated damage to the electronics, our products have polarity reversal protection. This ensures easy and safe connection and also protection of the electronic components.



Vibration tests

So as to test the resistance of our products to vibrations, they also undergo a special test procedure for this purpose. In addition, we place special emphasis on obtaining hard-wearing components and on ensuring high-quality workmanship as soon as we start designing our products and selecting their materials.





ROOF BARS


Roof bars from HELLA are designed for the most diverse requirements of emergency vehicles used by the police, fire brigade and rescue services. When the professionals have to rely on technology, their first choice always falls on systems from HELLA. Whether it is our RTK⁷ or OWS – every model guarantees maximum safety. You can rely on every single one. For example, our special signalling system RTK⁷ particularly stands out with its aerodynamic design, groundbreaking flexibility and innovative technology. Thanks to its full modular system and individual configuration options – from the basic through to the high-end version – all requirements are covered. Thus the system is prepared for the most diverse international applications.

ROOF BAR RTK⁷

Roof bars with flexible configuration options, optics modules for lighting in powerful and long-lasting LED technology

- Signal emission, optionally separately switchable, front / rear, various flashing sequences programmable
- Control possible via a programmable operating unit or via a vehicle-specific control panel, operation possible either with an analogue switch or via the high-speed CAN bus
- Flexibility regarding mounting concepts, covering housing widths between 900 and 2,000 millimetres wide in 100 mm increments for all the usual vehicle sizes
- The flat, streamlined housing design has significantly improved the cw value for a wide range of vehicle and RTK⁷ combinations

→ Approvals

- Germany: DIN 14620  035717 ~~~~W25049
- France:
 - T.P POL 12225 Police
 - T.P GEN 12226 Police
 - T.P SPO 12227 Fire service
 - T.P ASA 12228 Ambulance
 - T.P Mobile hospital unit 12229 Mobile hospital unit
- Switzerland: CH-B01-13020
- The Netherlands: The tested warning device RTK⁷ fulfils the requirements of the measurement procedure for the noise emission of multi-tone horns on fire brigade, police and ambulance priority vehicles stipulated by the Dutch Organisation for Applied Scientific Research.



Technical data

	RTK ⁷ (12 V)	RTK ⁷ (24 V)
Light source	LED	
Rated voltage	12 V	24 V
Supply voltage range	9 V ≤ U _{BAT} ≤ 16 V	20 V ≤ U _{BAT} ≤ 30 V
Operating temperature	-40 °C to +60 °C	
Quiescent current consumption	≤ 0.5 mA	
Undervoltage cutoff	≤ 9 V - 0.5 V	≤ 16 V - 0.5 V
Overvoltage cutoff	≥ 16 V + 0.5 V	≥ 32 V + 0.5 V
Load capacity	≤ 0.3 A	
Control outputs		
Load capacity	≤ 0.3 A	
Display outputs		
Load capacity	≤ 0.5 A to 7 A	
Light emissions		
EMC protection	VDE 0879 Part 3 interference suppression rating 3, CISPR 25 Class 3	
Operating	Digital with hand-held device type HA 112 or HA 115	Analogue with AZD, eAZD or single switches
Data bus protocol	CAN open in accordance with CIA 447	FireCAN
Scope of delivery	Mounting instructions on CD and also slot nuts for flexible, permanent fastening	

ROOF BAR RTK⁷



KL-LM 2 LED MODULE

With 2-level function for day/night mode, high-performance LEDs with additional bundle optics arranged in a semicircle for optimised visibility, also from the side.



KL-LM 3

As KL-LM-2, with additional optics for amber warning light.

③ LED two-colour module: This module enables – depending on the operation – a changeover from the continuous blue light in operation to an amber warning light when the vehicle is stationary at the scene. Other road users not involved are consequently not so distracted.



KL-LM 4

As KL-LM-2, with extended functionality for rotating signal emission analogue to the classic rotating mirror signal.



KL-LM 5

As KL-LM-2, with flashing infrared signal.



KL-LM 6

As KL-LM 4 with rotating infrared signal.



KL-LM 7

With 2-level function for day/night mode (flashes in daylight, rotates at night) with infrared flight visibility marking.

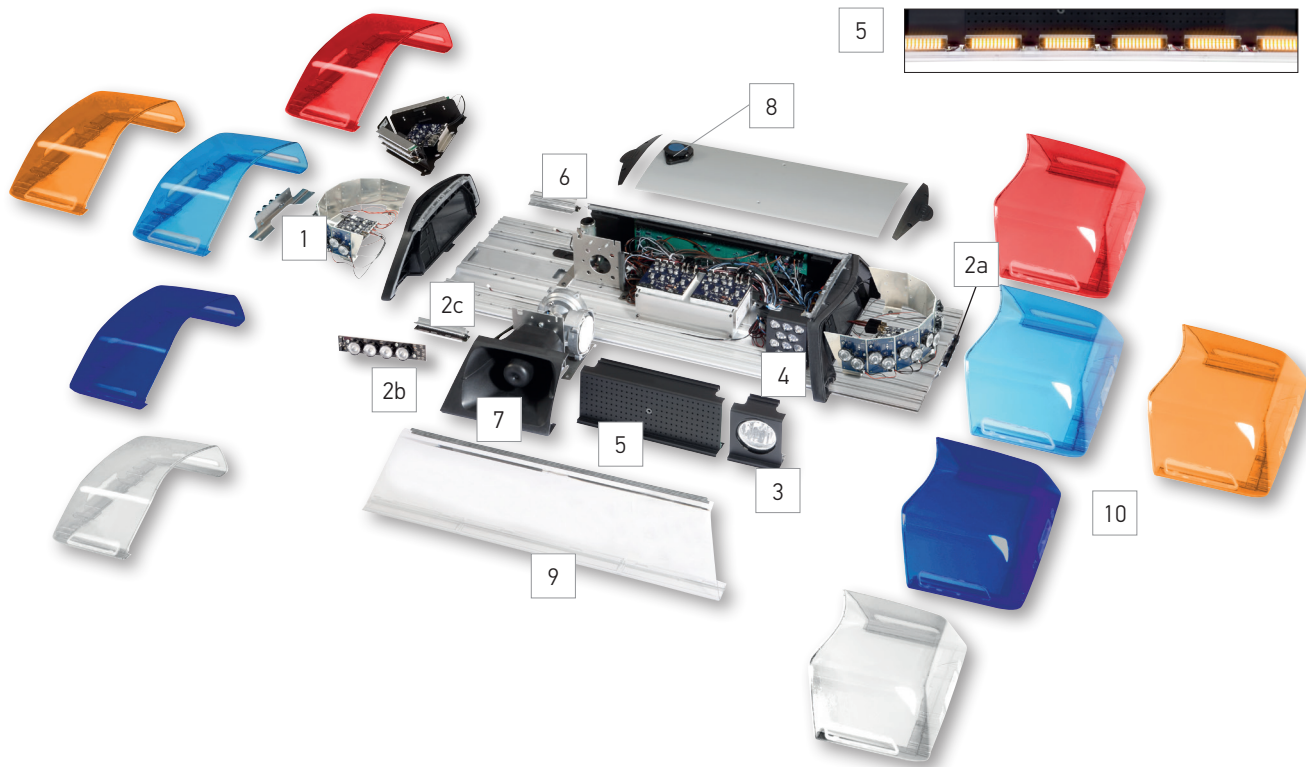


KL-LM 8

In blue/red (right/left), including cruise light, use only as far as legally permissible.



ROOF BAR RTK⁷



1 Main beacon modules
Powerful optical signals in various LED technologies, also available with infrared function on request.

2 Optional optics modules in the light dome
White working light, amber warning modules or blue additional flashers

2a Alley Lights
Side LED light for working

2b Hazard warning lamps
Alternative safeguarding of the operation site with amber hazard warning light in accordance with ECE

2c Auxiliary flashers
Auxiliary blue warning signal

3 Work lamps
LED light for working

4 Long-range flash module BSF LED
Long-range warning frontwards for high speeds in dense traffic

5 Stop signal generator
Prompt to control road users and to warn of danger

6 LED signal bar
Additional safeguard and traffic control

7 Internal acoustic modules
Integrated loudspeaker compliant with European regulations

8 Plug-in beacon
Particularly conspicuous signal because of raised warning light

9 Cover
Available in transparent, white, blue

10 Light domes
Available in transparent, blue, red and orange

ROOF BAR RTK⁷

AUXILIARY EQUIPMENT



Alley Lights

4 LEDs for intensive close-range illumination, alternatively also available to the front and to the rear (see work lamps), for 12 V and 24V applications



Hazard warning lamp modules/direction indicators

These enable switching from blue light to amber hazard warning light at the scene, automatic synchronisation of the flashing light to the hazard warning light frequency of the vehicle, ECE type-approved, for 12 V applications



LED work lamps

For intensive close-range illumination, front and rear mounting possible, Multivolt (9–33 V), light output (measured) 800 lm, for 12 V and 24 V applications



Blue



Blue with red
stop light



Red
stop light

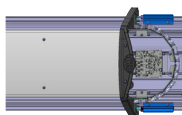
Long-range flash module BSF LED

Bundled, particularly far-reaching warning signal, effective warning during fast driving while on operations (e.g. on the motorway), for 12 V and 24 V applications

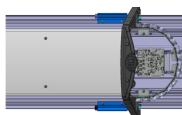


Auxiliary flashers

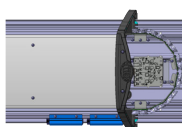
Additional, far-reaching warning signal, optional as an extra in the domes to the front and to the rear or in the central section of the unit to the rear, for 12 V applications



Mounting in the light domes, in each case directed to the front and to the rear



Single placement on the right and left in the central section of the unit, each facing the front and the rear



Double placement on the right and left in the central section of the unit, facing the rear

ROOF BAR RTK⁷

AUXILIARY EQUIPMENT



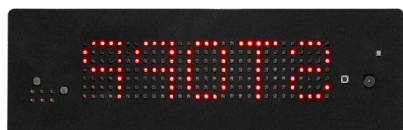
LED stop signal generator ASG

Matrix with fixed fonts, additional fonts freely programmable, alternatively word-specific, e.g. Stop Police (280 mm), Emergency Doctor (280 mm), Stop Police / Please Follow (380 mm), 3 module sizes: 280 mm, 380 mm and 560 mm for various units, automatic day/night mode, switching via photometric sensor, optional red stop light from BSF-LED long-range flash module, optional with ticker (requires SW version 50/19, 51/19 or higher), for 12 V applications



LED stop signal generator ASG-E (external)

Separate ASG module for use in the interior or for mounting on vertical body surfaces, flat design, for 12 V applications



LED stop signal generator ASG-S for sun visor

Matrix with fixed programmed fonts, also fonts in line with customer requirements possible, module size 320 mm x 100 mm, with self-adhesive black foam cover, other colours on request, with red stop light (homologated in accordance with STVZO-TA13b - the German Road Traffic Licensing Regulations), automatic day/night mode, switching via photometric sensor, analogue control, also for undercover use, acoustic feedback in switched-on state, for 12 V applications



LED signal bar LSB

Integrated, amber chaser light signal for rear warning and safeguarding, traffic control achieved by using different signal directions, use only as far as is legally permitted, for 12 V and 24 V applications

ROOF BAR RTK⁷

AUXILIARY EQUIPMENT

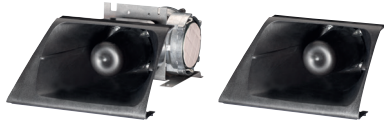


Fig. A

Fig. B

Internal acoustic module LSP-I

Integrated front speakers (Fig. A), optionally to the rear (Fig. B), for 12 V and 24 V applications



External acoustic module LSP-E

External loudspeakers for separate mounting, dimensions: approx. 118 x 105 mm, power consumption: 22 W each, 2 pieces required, for 12 V and 24 V applications

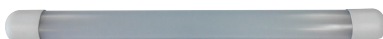
9MM 863 164-051

External acoustic module LSP-E



Fixture for plug-in beacon KL-A

Stand for additional high-mounted beacon, for long-range safeguarding, with integrated connector, two lengths: 170 mm 1,000 mm, switchable via software coding, for 12 V applications



Backlighting module

LED technology, for housing width of 900 mm to 1,600 mm, front and/or rear, for 12 V and 24 V applications

ROOF BAR RTK⁷

AUXILIARY EQUIPMENT



FireCAN

Diagnosis of connected components, central operating possible for the user via display units, enables remote diagnosis for all components of firefighting equipment and superstructures

RTK⁷ PC tool

Software configuration of RTK⁷, RTK⁷-VE and the matrix stop signal generators via the gateway

8KA 178 692-801 PC tool

RTK⁷ Software update stick

Enables fleet operators (from software version 01 / 11) to have licensed updates of different software versions for standardised operation within the fleet, includes update of the central control unit (CCU), of the stop signal generator (ASG) and of the gateway

8PY 191 978-801 Software update stick

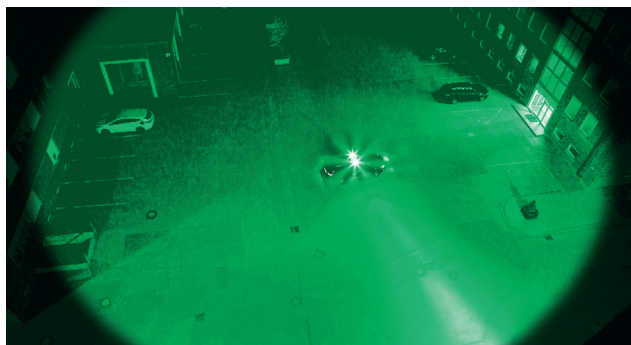
ROOF BAR RTK⁷ INFRARED MODULE

Helicopter night-vision device not only picks up residual light, but also heat sources. As a result of the gradual conversion of modern emergency vehicles from halogen beacons to energy-saving LED technology, it is no longer possible to clearly identify them from the air. This has led to the development of the KL-LM 5 / 6 / 7 infrared light module for the RTK⁷ special equipment packages.

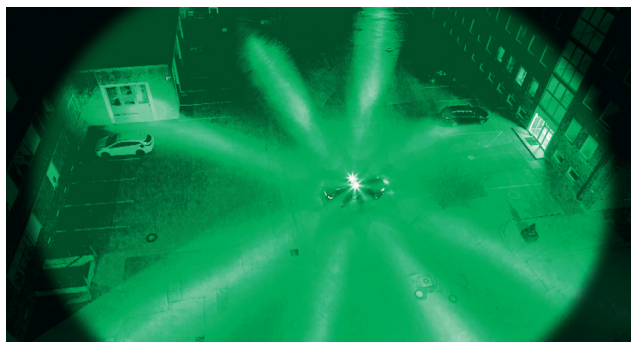


The main beacons, with a switch for day and night, consist of 16 LEDs per side. The infrared light signal is achieved using an additional 8 LEDs per side.

The highly efficient infrared LEDs achieve very long ranges with intense reflections and they ensure clear recognition of the user's own task forces thanks to FLIR/DLIR night-vision devices.



360° flashing KL-LM5 signal



Rotating signal KL-LM6

ROOF BAR RTK⁷
UNDERCOVER OPERATIONS

RTK⁷ - VE UNDERCOVER SYSTEM

Solution for undercover emergency vehicles with right of way, suitable not only for police vehicles but also for unmarked fire chief or emergency medical service vehicles of the fire brigade and rescue services, central control unit with two load channels (one active, alterable), pre-programmed for LSP-E, dimensions 60 x 207 x 114 mm (147 mm with bracket).

→ Approvals

- Germany: ~~~~W25049
- France: T.P POL 12225 Police
T.P GEN 12226 Police
T.P SPO 12227 Fire service
T.P ASA 12228 Ambulance
T.P UMH 12229 UMH (Mobile hospital unit)
- Switzerland: CH-B01-13020
- The Netherlands: The tested warning device RTK⁷ fulfils the requirements of the measurement procedure for the noise emission of multi-tone horns on fire brigade, police and ambulance priority vehicles stipulated by the Dutch Organisation for Applied Scientific Research.



Technical data	
Rated voltage	12 V
Operating voltage	9 – 16 V
Operating temperature	-40 °C to +60 °C
Quiescent current consumption	0.5 mA
Undervoltage cut-off	9 V - 0.5 V
Overvoltage cut-off	16 V + 0.5 V
Load capacity Control outputs	0.3 A
Load capacity Display outputs	0.3 A
Data bus control	CAN open in accordance with CIA 447
3SL 009 678-801	Control unit RTK ⁷ – VE - undercover operations
8KB 175 501-001	Vehicle cabling RTK ⁷ – VE - undercover operations



SYSTEM PROPOSAL "ANALOGUE"



Operating

9SX 008 902-021	eAZD
6ZE 001 759-051	AZD Police
6ZE 001 759-071	AZD Fire brigade



Voice announcement options

9MM 859 358-801	Fist microphone, black, includes bracket
9MK 860 255-001	Device box



Loudspeaker

9MM 863 164-051	LSP-E, separate mounting (2 pieces required)
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SYSTEM PROPOSAL "DIGITAL"



Gateway

9SX 010 392-001	Gateway German
9SX 010 392-011	Gateway International
8KB 173 872-001	Gateway lead group



Operating element with voice announcement option

9SX 010 391-001	HA 115, operating element for Germany
9SX 010 391-011	HA 112, operating element for Europe



Loudspeaker

9MM 863 164-051	LSP-E, separate mounting (2 pieces required)
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OPTIONAL



Beacon (for analogue and digital)

2XD 011 557-311	K.LED 2.0 magnetic attachment
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LED stop signal generator ASG-S (for analogue and digital)

On request	ASG module for a sun visor
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RTK7 PC tool (for analogue and digital)

8KA 178 692-801	PC tool for later configuration of hardware or software on RTK7-VE - undercover system
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LED stop signal generator ASG-E (only for digital)

2XD 010 978-001	Separate ASG module, 300 mm matrix
2XD 010 978-011	Separate ASG module, 400 mm matrix

ROOF BAR RTK ⁷
OPERATING



HA 112 and HA 115 operating element, digital

Tailor-made solutions for different operating concepts, integrated microphone function, for 12 V applications

9SX 010 391-001	HA 115 operating element for Germany(Fig. 1)
9SX 010 391-011	HA 112 operating element for Europe(Fig. 2)
9SX 010 392-001	Gateway German (Fig. 3)
9SX 010 392-021	Gateway German CiA2.1
9SX 010 392-011	Gateway International
8KB 173 872-001	Cable group without NF switchover

Accessories

8KB 174 934-001	Vehicle wiring harness, CAN only
8KB 174 943-001	Vehicle wiring harness, CAN and analogue



NF switchbox

Switching between radio or other audio sources and the internal microphone, input via cinch socket, operation via "RAD" button on the control panel

9SX 010 393-801	Includes switchover cable
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ROOF BAR RTK⁷
OPERATING



eAZD operating element, analogue

For electronic control of the optical and acoustic functions of special signalling systems, control unit for RTK⁷ or RTK⁷-VE - undercover operations - and up to 4 further auxiliary devices (e.g. beacons, warning lamps, stop signal generators, etc.)

9SX 008 902-021 12 V, with switching function, cable length 300 mm

Accessories

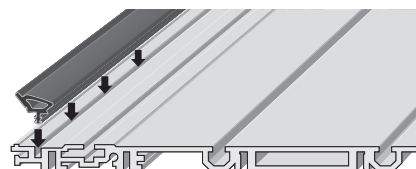
- 8KB 864 105-801 Extension cable set 3,500 mm
- 8HG 863 383-001 Mounting frame DIN shaft
- 8KB 174 943-001 Vehicle wiring harness, CAN and analogue



ROOF BAR RTK⁷ MOUNTING



For curved roofs



For straight roofs



Mounting systems for permanent fixing

Rubber underlay selections can be chosen to suit vehicles, for curved roofs in fixed lengths, for straight roofs and also individually adaptable sections for mounting on roof attachments with varying housing widths

9GD 175 947-001	Curved, 900 mm
9GD 175 947-011	Curved, 1,000 mm
9GD 175 947-021	Curved, 1,100 mm
9GD 175 947-031	Curved, 1,200 mm
9GD 175 947-041	Curved, 1,300 mm
9GD 175 947-051	Curved, 1,400 mm
9GD 175 947-061	Curved, 1,500 mm
9GD 175 947-071	Curved, 1,600 mm
9GD 176 514-871	Flat, 2 seals 1,600 mm + 2 pieces lateral seal
9GD 176 514-881	Flat, 2 seals 2,000 mm + 2 pieces lateral seal

Mounting system for roof rails

Basic carrier for vehicles with standard roof railing system, vehicle mounting and anti-theft device with multi-tooth key, with paint-protection, rubber dipped retaining claws

9XD 177 162-801	Rail carrier
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Vehicle-specific mounting

Fastening adapted to specific vehicle types

9XD 857 445-801	VW Touran
9XD 863 403-801	VW T5 / T6
9XD 863 521-001	Mercedes Vito + Viano

ROOF BAR RTK⁷

SPARE PARTS AND ACCESSORIES

Caps

Cap for 1,000 mm	9HD 172 569-111
Cap for 1,100 mm	9HD 172 569-121

Covers

Cover, clear for 1,000 mm	9EL 174 214-011
Cover, clear for 1,100 mm	9EL 172 564-101
Cover, white for OWS ⁷ 1,000 mm	9EL 174 215-011
Cover, white for OWS ⁷ 1,100 mm	9EL 172 564-011

Light domes

Dome LED, blue, without cut-out	9EL 172 563-011
Dome LED, blue, with cut-out	9EL 172 563-111
Dome, clear	9EL 172 563-241
Dome, red, without cut-out	9EL 172 563-031
Dome, red, with cut-out	9EL 172 563-131

PCB modules

KL-LM 2 / 4, blue	9MK 181 350-001
KL-LM 2 / 4, white for red and amber signal	9MK 181 350-101
KL-LM 3, blue/yellow	9MK 181 350-301
KL-LM 5 / 6 / 7, blue and infrared	9MK 181 350-401

LED stop signal generator ASG

ASG matrix 280 mm	2XD 176 212-001
ASG matrix 380 mm	2XD 176 216-001

Central control unit (ZSE)

ZSE light/acoustics with 2 load outputs	5DK 009 678-001
ZSE light/acoustics with 12 load outputs	5DK 009 678-021
ZSE light with 12 load outputs	5DK 009 678-031

Power electronics

Master electronics - standard V 3.0, 12 V	9MK 174 724-011
Master electronics - standard V 3.0, 24 V	9MK 174 724-031
Master electronics V 3.0 for KL-LM 3 / 5 / 6 / 7, 12 V	9MK 174 724-041

Additional optics/light modules

Amber direction indicators, (2 modules, left and right)	9DW 168 426-801
Hazard warning lamp module/direction indicator	1GA 176 800-031 left 1GA 176 800-041 right
Alley Light	2XD 176 235-001
Auxiliary flasher, blue	2XD 168 426-241 left 2XD 168 426-261 right

Work lamps

Halogen H9, 12 V	1GA 010 467-001
LED	1G0 010 467-011

Long-range flash module BSF-LED

BSF-LED blue, stop light red without master electronics	1XA 010 410-001
BSF-LED blue, without master electronics	1XA 010 410-011
Stop light red, without master electronics	1XA 010 410-021

LED signal bar LSB

LSB 2 pieces à 80 mm without master electronics, with cable	9DW 168 426-811
LSB operating element for analogue operation (includes cable)	9SX 178 258-001

LSP-I loudspeaker

Front loudspeaker	9MM 176 031-001
Rear loudspeaker	9MM 176 032-001

Accessories

Socket pipe 17 cm	8HG 860 608-011
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LED stop signal generator ASG-E

ASG-E 300 mm	2XD 010 978-001
ASG-E 400 mm	2XD 010 978-011

LED stop signal generator ASG-S

ASG-S	On request
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Set of rubber seals for RTK⁷

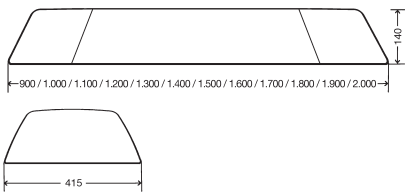
for installation in the base plate to improve aerodynamics

Housing width 1,100 mm	9GD 209 213-001
Housing width 1,400 mm	9GD 209 213-011

Plug connections

3 male pin contacts each 1.0 – 1.5 mm ² , female socket contacts 1.0 – 1.5 mm ² , 4 single cable seals each, 2 blind plugs, 2-pin, 18 pieces, abbreviated to B 04	8KW 744 806-801
4 male pin contacts each 1.0 – 1.5 mm ² , female socket contacts 1.0 – 1.5 mm ² , 6 single cable seals each, 4 blind plugs, 3-pin, 26 pieces, abbreviated to B 05	8KW 744 807-801

MORE ROOF BARS



Roof bar OWS⁷

Optical warning system based on the RTK⁷, without acoustic function and with white housing covers, housing widths of 900 - 2,000 mm available, can be equipped with optical add-on modules such as Alley Lights, work lamps and stop signal generators from the RTK⁷ range

Approvals

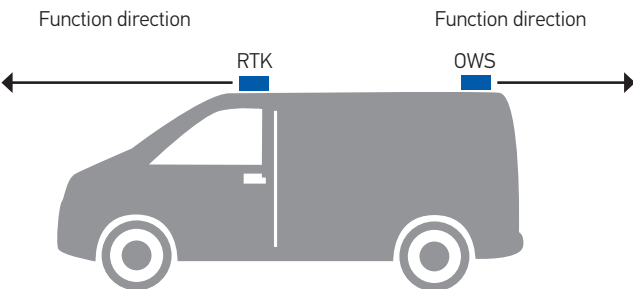
Germany DIN 14620 035717 ~~~~W25049

Light source	LED
Rated voltage	12 V
Operating voltage	9 – 16 V
Operating temperature range	-40 °C to +80 °C
Type approval	ECE-R65: TB2

On request	KL-LM 2 / 4(blue)
On request	KL-LM 3 (blue/amber), only in conjunction with central control unit ZSE

Accessories

5DK 009 678-001	Central control unit ZSE light/acoustics with 2 load outputs
5DK 009 678-021	Central control unit ZSE light/acoustics with 12 load outputs
5DK 009 678-031	Central control unit ZSE Light with 12 load outputs



The OWS⁷ can also be combined with an RTK⁷ . The entire system can be conveniently controlled via the RTK⁷ operating elements. It should be noted that the RTK⁷ offers a maximum of 4 output lines for controlling an OWS⁷ . Each output can be loaded with a maximum of 7 amperes and can be used for the various functions (main beacons, Alley Lights, LSB, LED stop signal generators or work lamps) in the OWS⁷

ROOF BAR OWS⁷

ACCESSORIES AND SPARE PARTS

Dome, amber

Dome for LED modules

Without cut-out	9EL 172 563-351
With cut-out	9EL 172 563-251

Alley Lights

White, 12 V	2XD 176 235-001
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LED work lamps

LED work lamps	1G0 010 467-011
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Rubber bases

For mounting the OWS⁷ system on curved or straight roofs

Curved, 900 mm	9GD 175 947-001
Curved, 1,000 mm	9GD 175 947-011
Curved, 1,100 mm	9GD 175 947-021
Curved, 1,200 mm	9GD 175 947-031
Curved, 1,300 mm	9GD 175 947-041
Curved, 1,400 mm	9GD 175 947-051
Curved, 1,500 mm	9GD 175 947-061
Curved, 1,600 mm	9GD 175 947-071
Flat, 2 seals 1,600 mm + 2 pieces lateral seal	9GD 176 514-071

LSB operating element for OWS⁷

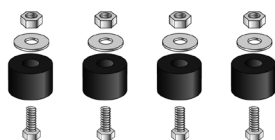
Includes cable	9SX 178 258-001
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Changeover switch, latching

2-pole switch, latching, with one step

12 V	6FH 353 100-031
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MORE ROOF BARS



Standard bracket system (included in delivery)

Accessories



Changeover switch



LSB operating element



Angled bracket system

Roof bar Raptor +

Optical warning system with a particularly flat design, long-life LED technology, focused signal emission, variants available with auxiliary functions such as lateral road illumination (Alley Light) and chaser light signal (LSB*) to the rear

Light source	LED
Rated voltage	12 V
Operating temperature range	-40 °C to +60 °C
EMC protection	CISPR 25, Class 5
Type approval	ECE-R65: TB1

598 mm

2RL 010 743-141	598 mm, blue main beacons 1 switch required
2RL 010 743-001	598 mm, amber main beacons 1 switch required

1,118 mm

2RL 010 743-011	1,118 mm, blue main beacons 1 switch required
2RL 010 743-101	1,118 mm, blue main beacons, with Alley Light 3 switches required
2RL 010 743-111	1,118 mm, blue main beacons, with Alley Light and LSB* 4 switches and 1 operating element required
2RL 010 743-091	1,118 mm, amber main beacons 1 switch required
2RL 010 743-051	1,118 mm, amber main beacons, with Alley Light 3 switches required
2RL 010 743-041	1,118 mm, amber main beacons, with LSB* 3 switches and 1 operating element required
2RL 010 743-061	1,118 mm, amber main beacons, with Alley Light and LSB* 4 switches and 1 operating element required

1,248 mm

2RL 010 743-131	1,248 mm, blue main beacons with Alley Light and LSB* 4 switches and 1 operating element required
2RL 010 743-021	1,248 mm, amber main beacons 1 switch required
2RL 010 743-071	1,248 mm, amber main beacons with Alley Light 3 switches required
2RL 010 743-031	1,248 mm, amber main beacons with LSB* 3 switches and 1 operating element required
2RL 010 743-081	1,248 mm, amber main beacons, with Alley Light and LSB* 4 switches and 1 operating element required

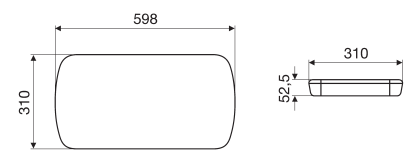
Accessories

6FH 353 100-031	Changeover switch, 12 V, latching, 2-pin, 1 level
9SX 178 258-001	LSB operating element
8HG 168 011-001	Angled bracket system (2 stainless steel angle brackets)

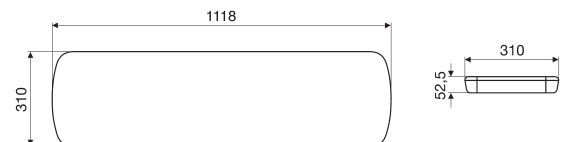
Module fittings

	● ● Main beacons	▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ LSB* modules	○ ○ ○ Alley Lights
Raptor + (598 mm)			
2RL 010 743-141	●		●
2RL 010 743-001	●		●
Raptor + (1,118 mm)			
2RL 010 743-011	●		●
2RL 010 743-101	●		○ ○ ○
2RL 010 743-111	●	▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬	○ ○ ○
2RL 010 743-091	●		●
2RL 010 743-051	●		○ ○ ○
2RL 010 743-041	●	▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬	●
2RL 010 743-061	●	▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬	○ ○ ○
Raptor + (1,248 mm)			
2RL 010 743-131	●	▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬	○ ○ ○
2RL 010 743-021	●		●
2RL 010 743-071	●		○ ○ ○
2RL 010 743-031	●	▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬	●
2RL 010 743-081	●	▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬	○ ○ ○

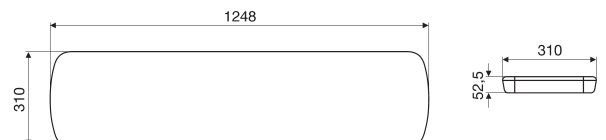
598 mm



1,118 mm



1,248 mm



* Use of LSB only as far as permitted by law. Please observe national regulations.



BEACONS

When two or four HELLA beacons with their powerful warning effect are positioned on the perimeter of the vehicle roof, optimum visibility and easy detection are guaranteed for all during the entire operation. They enable maximum safety for the user and for third parties thanks to their intensive warning effect. This safety is achieved by the optimum light bundling and distribution, the resulting high range and also the very high light intensity. You can rely one hundred percent on our beacons: HELLA beacons are characterised by outstanding quality when it comes to workmanship and stability – and their long lifetime proves it!

SURFACE MOUNTING

Almost all HELLA beacons have the same dimensions and feature the same number of screw attachment points (pitch circle diameter: 130 mm). Consequently, it is no problem to simply exchange or replace them with a new beacon model. Halogen and LED lighting technology models also feature the same attachment points. As a result, it is very easy to replace a halogen beacon that was purchased for surface mounting by a LED beacon which is also planned to be a permanent fixture.



PIPE SOCKET MOUNTING

The varying shapes of vehicle roofs, extensions or restricted installation spaces do not always permit the surface mounting of beacons. The beacon must be adequately visible in order to achieve the statutory 360° warning effect. Angled pipes are suitable for this purpose, fixtures that can, for example, be attached to the side of the vehicle to make sure that the beacon protrudes from the vehicle roof and is easily visible from all sides. Our beacons with their pipe socket mounting are suitable for pipe diameters of 24 mm and are thus perfect for the widely used DIN pipes. These can be purchased as accessories from HELLA in a variety of variants.

FLEXIBLE PIPE SOCKET MOUNTING

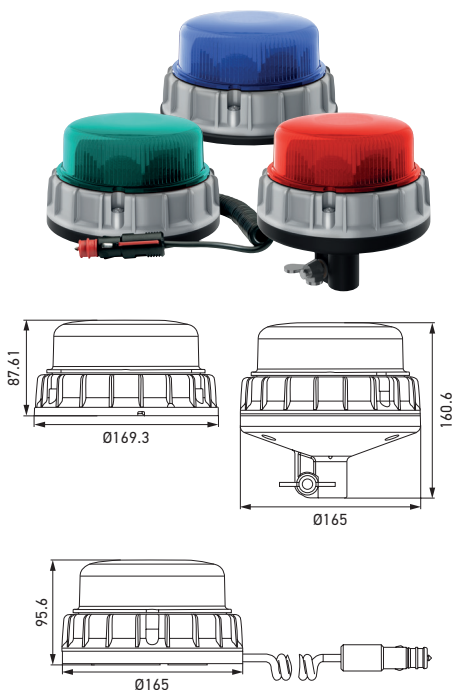
A flexible pipe socket variant, offering additional benefits, is also available for selected beacons. In the event of collisions, such as impacts with branches, the housing buckles by up to 45° only to then return to its original position. This prevents damage from being done to the beacon. We use weatherproof, elastic EPDM rubber material to guarantee this function, a material which is also resistant to contact with chemicals.



MAGNETIC MOUNTING

The slim shape of the magnetic adapter makes it quite inconspicuous. It is enhanced by a rubber sheath to guarantee scratch resistance and to protect the vehicle's roof. Our high-performance neodymium magnets have a very high holding force and are manufactured in Germany. They are produced in line with REACH and RoHS to thus take into account the restricted use of certain hazardous substances in electrical and electronic devices. Quality you can rely on!

BEACONS LED



K-LED 2.0

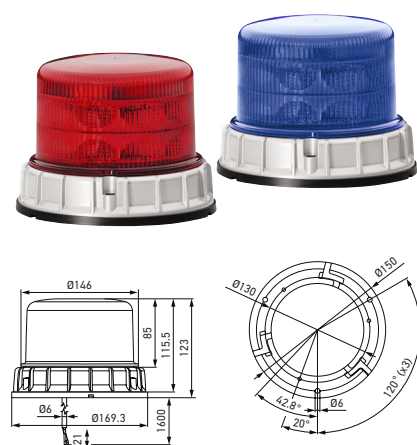
Equipped with flashing and rotating signal, two brightness levels thanks to integrated sensor (day/night mode), high-quality corrosion protection, up to 4 beacons can be synchronised with the surface-mount variant

Light source	LED
Rated voltage	Multi-voltage (10 – 32 V)
Protection class	IP 67, IP X9K
Type approval	ECE-R65: TB2, TR1
EMC protection	CISPR 25, Class 5

2XD 011 557-111	Surface mounting, blue, flashing/rotating
2XD 011 557-121	Surface mounting, red, flashing/rotating
2XD 011 557-131	Surface mounting, green, flashing/rotating
2XD 011 557-211	Pipe socket mounting, blue, flashing/rotating
2XD 011 557-221	Pipe socket mounting, red, flashing/rotating
2XD 011 557-311	Magnet mounting, blue, flashing/rotating
2XD 011 557-321	Magnet mounting, red, flashing/rotating

Accessories

9GD 856 863-001	Rubber base, wedge-shaped
8HG 005 436-041	Pipe socket



K-LED 1.2

Flashing or rotating signal, large light-emitting surface, high-quality corrosion protection, red version on request

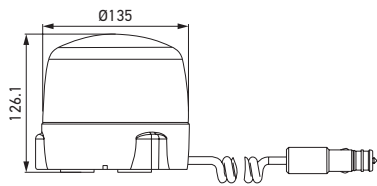
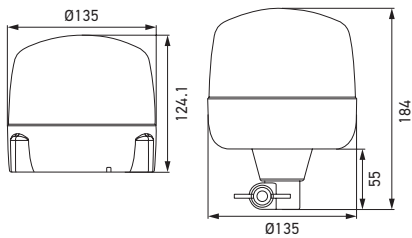
Light source	LED
Rated voltage	Multi-voltage (10 – 30 V)
Protection class	IP 6K7, IP X9K
Type approval	ECE-R65: TB1, TR1
EMC protection	CISPR 25, Class 5

2RL 012 983-311	Surface mounting, blue, rotating
2XD 012 984-311	Surface mounting, blue, flashing
On request	Surface mounting, red, rotating
On request	Surface mounting, red, flashing

Accessories

9GD 856 863-001	Rubber base, wedge-shaped
8HG 005 436-041	Pipe socket

BEACONS LED



Rota LED

Flashing or rotating signal, compact design, impact-resistant polycarbonate light dome

Light source	LED
Rated voltage	Multi-voltage (10 – 30 V)
Protection class	IP 5K4K, IP X9K
Type approval	ECE-R65: TB1
EMC protection	CISPR 25, Class 5

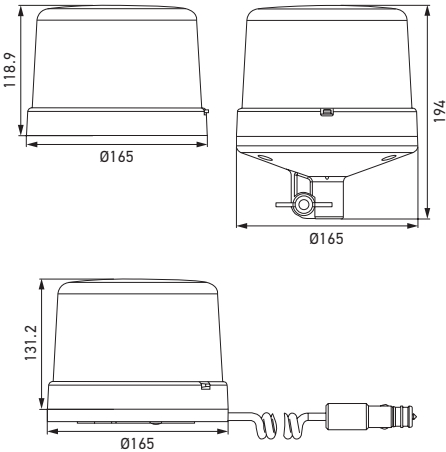
2RL 010 979-101	Surface mounting, blue, rotating
2XD 012 878-101	Surface mounting, blue, flashing
2RL 010 979-111	Flexible pipe socket mounting, blue, rotating
2XD 012 878-111	Flexible pipe socket mounting, blue, flashing
2RL 010 979-121	Magnet mounting, blue, rotating
2XD 012 878-121	Magnet mounting, blue, flashing

Spare parts

9EL 181 506-011	Dome, blue (polycarbonate)
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BEACONS
LED



KL 7000 LED

Flashing or rotating signal, compact design scratch-resistant and dirt-resistant, smooth light dome

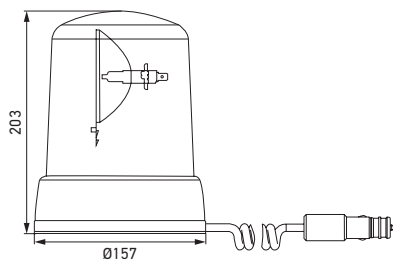
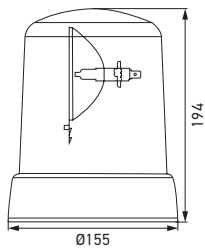
Light source	LED
Rated voltage	Multi-voltage (10 – 32 V)
Protection class	IP 5K4K, IP X9K
Type approval	ECE-R65: TB1
EMC protection	CISPR 25, Class 5

2RL 011 484-101	Surface mounting, blue, rotating
2XD 012 972-101	Surface mounting, blue, flashing
2RL 011 484-111	Flexible pipe socket mounting, blue, rotating
2XD 012 972-111	Flexible pipe socket mounting, blue, flashing
2RL 011 484-121	Magnet mounting, blue, rotating
2XD 012 972-121	Magnet mounting, blue, flashing

Spare parts

9EL 190 025-011	Dome, blue (polycarbonate)
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BEACONS HALOGEN



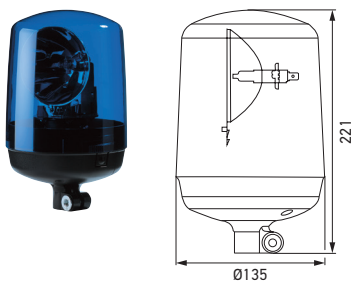
KL 7000

Halogen beacon, rotating signal, smooth light dome with handy and practical pressure point mounting, electronic motor control

Light source	Halogen
Rated voltage	Multi voltage (12 / 24 V)
Protection class	IP 5K4K, IP 9K
Type approval	ECE-R65: TB1
EMC protection	CISPR 25, Class 5

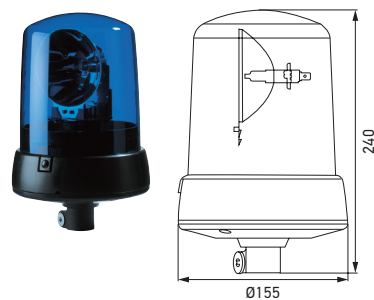
2RL 008 061-001	12 V, surface mounting, blue, rotating
2RL 008 061-011	24 V, surface mounting, blue, rotating
2RL 008 060-001	12 V, pipe socket mounting, blue, rotating
2RL 008 060-011	24 V, pipe socket mounting, blue, rotating
2RL 008 063-001	12 V, flexible pipe socket mounting, blue, rotating
2RL 008 063-011	24 V, flexible pipe socket mounting, blue, rotating
2RL 008 062-001	12 V, magnet mounting, blue, rotating
2RL 008 062-011	24 V, magnet mounting, blue, rotating

Pipe socket mounting



For easy plug-in attachment to DIN pipes. Anti-theft protection thanks to hexagon socket screw

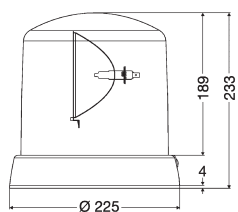
Flexible pipe socket mounting



With shock-absorbing, vibration-damping base; even heavy impact is cushioned and lamp always returns to upright position. The maximum tilt angle is at an inclination of 45°. Anti-theft protection thanks to hexagon socket screw.

BEACONS

HALOGEN



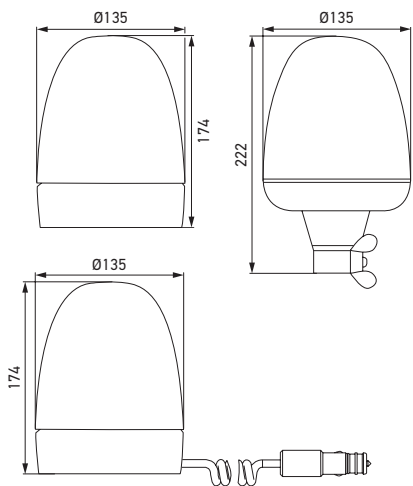
KL 8000

Halogen beacon, rotating signal, smooth light dome with handy and practical pressure point mounting, electronic motor control, distance between drill holes: Ø 200 mm

Light source	Halogen
Rated voltage	Multi voltage (12 / 24 V)
Protection class	IP 5K4K, IP 9K
Type approval	ECE-R65: TB1
EMC protection	CISPR 25, Class 5

2RL 008 065-001	12 V, surface mounting, blue, rotating
2RL 008 065-011	24 V, surface mounting, blue, rotating

BEACONS
HALOGEN



KL Rotafix / Rotaflex














Halogen beacon, rotating signal, smooth light dome, motor with plastic worm drive

Light source	Halogen
Rated voltage	Multi voltage (12 / 24 V)
Protection class	IP 5K4K, IP 9K
Type approval	ECE-R65: TB1
EMC protection	CISPR 25, Class 3

2RL 007 337-101	12 V, surface mounting, blue, rotating
2RL 007 337-111	24 V, surface mounting, blue, rotating
2RL 006 846-101	12 V, flexible pipe socket mounting, blue, rotating
2RL 006 846-111	24 V, flexible pipe socket mounting, blue, rotating
2RL 007 337-121	12 V, magnet mounting, blue, rotating













ACCESSORIES

FOR BEACONS AND WORK LAMPS WITH PIPE SOCKET MOUNTING

Product picture	Description	Part number	PU
	Socket pipe for welding on, straight, 100 mm long, with rubber stopper and socket, compliant with DIN 14620	1-pin 8HG 002 365-001 2-pin 8HG 006 294-101	1
	Socket pipe with screw-on base plate, total height 126 mm, with rubber stopper and socket, compliant with DIN 14620	1-pin 8HG 006 294-011 2-pin Available on request¹⁾	1
	Angled socket pipe with base plate for lateral screw attachment, clearance 90 mm, height 100 mm including rubber stopper, socket, 2 x hexagon screws M8 x 35, 2 x hexagon nuts M8, 2 x spring washers, compliant with DIN 14620	1-pin 8HG 006 294-021 2-pin Available on request¹⁾	1
	Angled socket pipe with base plate for lateral screw attachment, clearance 120 mm, height 105 mm including rubber stopper, 2 x hexagon screws M8 x 35, 2 x hexagon nuts M8, 2 x spring washers, compliant with DIN 14620	1-pin 8HG 006 294-171 2-pin Available on request¹⁾	1
	Angled socket pipe with base plate for lateral screw attachment, clearance 50 mm, height 100 mm including rubber stopper, socket, 2 x hexagon screws M8 x 35, 2 x hexagon nuts M8, 2 x spring washers, compliant with DIN 14620	1-pin 8HG 006 294-111 2-pin Available on request¹⁾	1
	Socket pipe for inclined screw-on surfaces, beacon adjustable parallel to the roadway, height approx. 105 mm, with rubber stopper, socket, 2 x hexagon screws M8 x 35, 2 x hexagon nuts M8, 2 x spring washers, compliant with DIN 14620	1-pin 8HG 006 294-031 2-pin 8HG 006 294-141	1
	Socket pipe with screw mounting, height approx. 100 mm, with rubber stopper and socket, compliant with DIN 14620	1-pin 8HG 006 294-051 2-pin 8HG 006 294-091	1
	Socket pipe with 2 screw holes for surface mounting to the rear of the cab, with telescopic bracket, total height approx. 1,000 mm, can be shifted up to 700 mm, with rubber stopper and socket, compliant with DIN 14620	1-pin 8HG 006 294-041 2-pin Available on request¹⁾	1
	Socket pipe for welding on, straight, height 100 mm, compatible with 8HG 002 365-001 / 8HG 006 294-101	8HG 096 531-007	2
	Socket pipe, straight, black, with M8 thread, approx. 220 mm long, compatible with 8HG 990 368-001 / -007	8HG 331 470-007	2
	Socket pipe, straight, with screw-on base plate, total height 126 mm, compatible with 8HG 006 294-011 / -121	8HG 096 531-107	2
	Socket pipe, angled, with base plate for lateral screwing, clearance 90 mm, compatible with 8HG 006 294-021 and -221	8HG 096 531-117	2
	Socket pipe, angled, with base plate for lateral screwing, clearance 50 mm, compatible with 8HG 006 294-111 / -211	8HG 096 531-127	2

1) Based on individual minimum purchase quantities

ACCESSORIES

Product picture	Description	Part number	PU
	Socket pipe for slanting, screw-on surfaces, beacon adjustable parallel to the road, height approx. 105 mm, compatible with 8HG 06 294-031 / -141	8HG 096 531-137	2
	2-pin socket with cover, with 2 flat connector connections 6.3 mm	9JB 004 777-001* 9JB 004 777-002*	5 1
	2-pin round socket with ground contact, with 2 flat connector connections 6.3 mm	8JB 862 757-001* 8JB 862 757-007*	1 24
	2-pin 6-edge SW20 socket with ground contact, with 2 flat connector connections 6.3 mm	8JB 862 757-027*	1 / 24
	2-pin socket with cover, with 300 mm cable 2.5 mm² and 2 flat connector connections 6.3 mm	8JB 001 946-101*	1
	2-pin light alloy socket with cover and 1 screw connection, ground on housing	8JB 001 946-021*	10
	2-pin socket with cover and 2 flat connector connections 6.3 mm	8JB 004 123-031*	1
	1-pin round socket with oval-head screw M4 x 8	8JB 850 434-011*	10
	1-pin socket with cover	8JB 001 946-011*	10
	Alarm rotary switch with three or four switch positions, for visual and acoustic signal		1
	Police, 4 switching positions	12 V, 6ZE 001 759-051 24 V, 6ZE 001 759-061	1
	Fire brigade / ambulance / civil defence / disaster control, 3 switch positions	12 / 24 V, 6ZE 001 759-071	1
	12 V, test equipment to monitor the function of rotating beacons and strobe-type beacons, indicates beacon failure.	5KG 011 630-101	1
	Rubber stopper / cap in accordance with DIN 14620	9GH 096 532-001 9GH 096 532-007	10 200

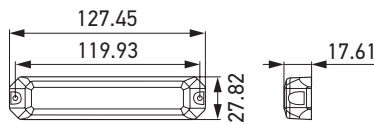
* Sockets are in accordance with DIN ISO 4165; mount opening: Ø 18.5 mm, switchboard thickness max. 7 mm

AUXILIARY WARNING SYSTEMS

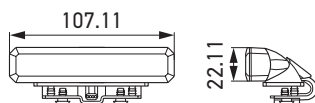
These are the plain facts: Warning systems play an active part in making an emergency site safe. The high level of warning effectiveness of an auxiliary warning signal not only allows the stationary vehicle to be seen more clearly and sooner, it also makes the area in which teams are working safer. The combination of efficient LEDs and precision optics leads to even illumination and an extremely high signal effect. HELLA warning systems offer you a huge variety of mounting possibilities so that individual fitting on every kind of vehicle is possible.



AUXILIARY WARNING LAMPS LED



Surface mounting



Bracket mounting

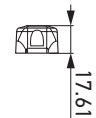
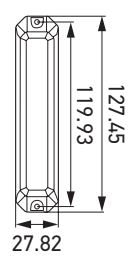
BST warning lamp (6 LED)

Auxiliary warning lamp for horizontal surface-mounting, supplied as a set of 2, variants with day/night mode available

Light source	6 LEDs
Rated voltage	Multi-voltage (11 – 30 V)
Protection class	IP 5K4K, IP 9K, IP 6K9K
Type approval	ECE-R65: XA1, XB1, XR1 (1 level) XA2, XB2, XR2 (day/night mode)
EMC protection	CISPR 25, Class 3

2XD 012 160-851	Surface mounting, amber, 1 level
2XD 014 560-201	Surface mounting, amber, day/night mode
2XD 012 160-801	Surface mounting, blue, 1 level
2XD 014 560-001	Surface mounting, blue, day/night mode
2XD 012 160-821	Surface mounting, red, 1 level
2XD 012 160-861	Bracket mounting, amber, 1 level
2XD 014 560-401	Bracket mounting, amber, day/night mode
2XD 012 160-811	Bracket mounting, blue, 1 level
2XD 014 560-101	Bracket mounting, blue, day/night mode
2XD 012 160-831	Bracket mounting, red, 1 level

AUXILIARY WARNING LAMPS
LED



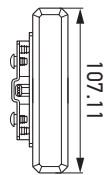
Surface mounting

BST-V warning lamp (6 LED)

Auxiliary warning lamp for vertical surface mounting, supplied as a set of 2

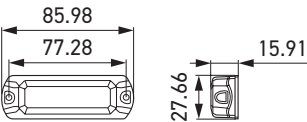
Light source	6 LEDs
Rated voltage	Multi-voltage (11 – 30 V)
Protection class	IP 5K4K, IP 9K, IP 6K9K
Type approval	ECE-R65: XA1, XB1 (1 level)
EMC protection	CISPR 25, Class 3

2XD 012 160-951	Surface mounting, amber, 1 level
2XD 012 160-901	Surface mounting, blue, 1 level
2XD 012 160-961	Bracket mounting, amber, 1 level
2XD 012 160-911	Bracket mounting, blue, 1 level

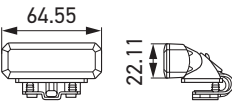


Bracket mounting

AUXILIARY WARNING LAMPS
LED



Surface mounting



Bracket mounting

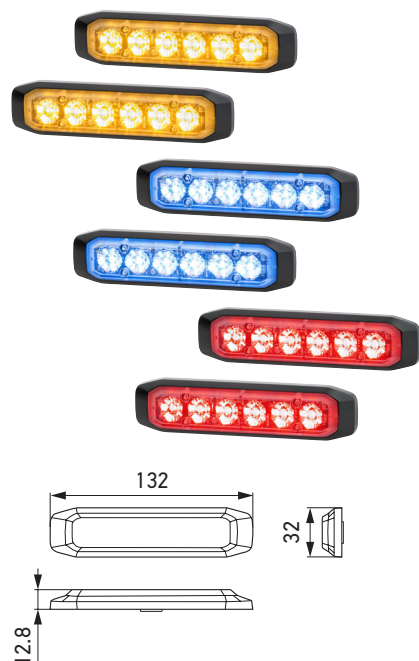
BST warning lamp (3 LED)

Auxiliary warning lamp for horizontal surface mounting, supplied as a set of 2

Light source	3 LEDs
Rated voltage	Multi-voltage (11 – 30 V)
Protection class	IP 5K4K, IP 9K, IP 6K9K
Type approval	ECE-R65: XA1,XB1,XR1(1 level)
EMC protection	CISPR 25, Class 3

2XD 014 561-201	Surface mounting, amber, 1 level
2XD 014 561-001	Surface mounting, blue, 1 level
2XD 014 561-601	Surface mounting, red, 1 level
2XD 014 561-401	Bracket mounting, amber, 1 level
2XD 014 561-101	Bracket mounting, blue, 1 level
2XD 014 561-701	Bracket mounting, red, 1 level

AUXILIARY WARNING LAMPS LED



BST-Slim warning lamp (6 LED)

Auxiliary warning lamp for horizontal surface mounting, supplied as a set of 2, equipped with day/night mode as standard

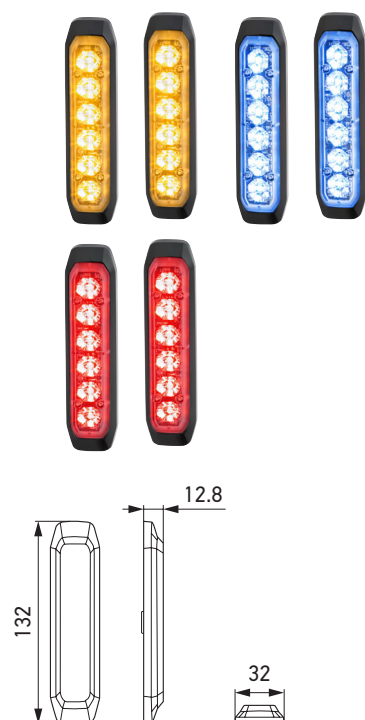
Light source	6 LEDs
Rated voltage	Multi-voltage (11 – 30 V)
Protection class	IP X7, IP X9K
Type approval	ECE R65: XA2, XB2, XR2 (day/night mode) SAE J595
EMC protection	CISPR 25, Class 5

2XD 014 562-001	ECE, blue, day/night mode
2XD 014 562-201	ECE, amber, day/night mode
2XD 014 562-601	ECE, red, day/night mode
2XD 014 562-101	SAE, blue, day/night mode
2XD 014 562-401	SAE, amber, day/night mode
2XD 014 562-701	SAE, red, day/night mode



BST-V-Slim warning lamp (6 LED)

Auxiliary warning lamp for vertical surface mounting, supplied as a set of 2, equipped with day/night mode as standard



Light source	6 LEDs
Rated voltage	Multi-voltage (11 – 30 V)
Protection class	IP X7, IP X9K
Type approval	ECE R65: XA2, XB2, XR2 (day/night mode) SAE J595
EMC protection	CISPR 25, Class 5

2XD 014 592-001	ECE, blue, day/night mode
2XD 014 592-201	ECE, amber, day/night mode
2XD 014 592-601	ECE, red, day/night mode
2XD 014 592-101	SAE, blue, day/night mode
2XD 014 592-401	SAE, amber, day/night mode
2XD 014 592-701	SAE, red, day/night mode

AUXILIARY WARNING LAMPS
LED



BST-Slim warning lamp (3 LED)

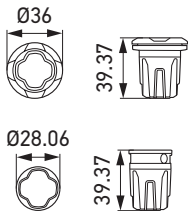
Auxiliary warning lamp for horizontal surface mounting, supplied as a set of 2

Light source	3 LEDs
Rated voltage	Multi-voltage (11 – 30 V)
Protection class	IP X7, IP X9K
Type approval	ECE-R65: XA1,XB1,XR1(1 level) SAE J595
EMC protection	CISPR 25, Class 5

2XD 014 563-001	ECE, blue, 1 level
2XD 014 563-201	ECE, amber, 1 level
2XD 014 563-601	ECE, red, 1 level
2XD 014 563-101	SAE, blue, 1 level
2XD 014 563-401	SAE, amber, 1 level
2XD 014 563-701	SAE, red, 1 level



AUXILIARY WARNING LAMPS
LED



BST-Round warning lamp

Auxiliary warning lamp for integration into vehicle body, supplied as a pre-configured set consisting of 1 ballast unit, 2 light modules and 2 mounting rings

Light source	4 LEDs
Rated voltage	Multi-voltage (11 – 30 V)
Protection class	IP 6X, IP X4K, IP X9K
Type approval	ECE-R65: XA2, XB2, XR2 (day/night mode) SAE J595
EMC protection	CISPR 25, Class 3

2XD 014 564-001	ECE, blue, clear lens, day/night mode
2XD 014 564-051	ECE, blue, dark lens, day/night mode
2XD 014 564-211	ECE, amber, day/night mode
2XD 014 564-601	ECE, red, day/night mode
2XD 014 564-101	SAE, blue, clear lens, day/night mode
On request	SAE, blue, dark lens, day/night mode
2XD 014 564-401	SAE, amber, day/night mode
2XD 014 564-701	SAE, red, day/night mode

Clear lens



The round warning lamps are equipped with a clear lens as standard and the use of coloured LEDs enables a variety of signal colours.

Dark lens



On request, the BST-Round warning lamp is also available with a dark lens. This variant generates a blue warning signal. As the warning lamp with a dark lens is inconspicuous and not immediately recognisable, it is particularly suitable for undercover operations.

AUXILIARY WARNING LAMPS LED



Intersection warning system BST-X

Auxiliary warning lamps for integration in vehicle body, for early warning of road users as a result of lamp positioning far to the front, especially useful when the vehicle is driving out of an area that is difficult to see (e.g. access roads, gateways), supplied as a set consisting of 6 light modules, 3 ballast units, 4 adjustable mounting rings (tilt angle 0 - 20°) and 2 standard mounting rings

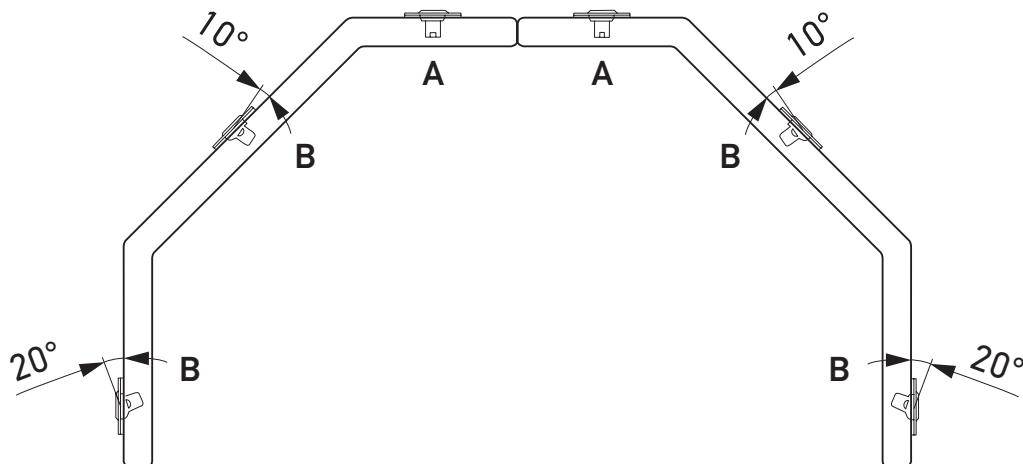
Light source	LED
Rated voltage	Multi-voltage (11 – 30 V)
Protection class	IP 6X, IP X4K, IP X9K
Type approval	ECE-R65: HTB2 (day/night mode)
EMC protection	CISPR 25, Class 3
2XD 014 564-037	Set (6 light modules), blue, day/night mode

Adjustable mounting rings



The adjustable mounting rings of the intersection warning system can be aligned in 5° steps spanning a tilt angle from 0 to 20°. This makes them adaptable to a wide range of vehicle types.

Positioning on the vehicle



The 6 light modules of the set are attached to the vehicle using various mounting rings and then aligned. The set includes **2 standard mounting rings (A)**, which point in the direction of travel and which do not allow a tilt angle. The other **4 adjustable mounting rings (B)** are adjustable in 5° steps from 0 - 20°.

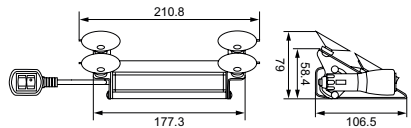
AUXILIARY WARNING LAMPS
LED



With universal connector for vehicle electrical system socket



With open cable end



FWL-LED front warning lamp

Auxiliary front signal directed accordingly, as a supplement to the beacon, ideal for undercover operations, 6 possible flash sequences, suction cups for quick attachment, 3.7 m long cable, no ECE approval: Use only to such an extent as is permitted by law

Light source	42 LEDs
Rated voltage	Single volt (12 V)
Type approval	SAE J595
EMC protection	CISPR 25, Class 5

2XD 014 053-001	Blue, with universal connector (2-pin) for vehicle electrical system socket
2XD 014 053-011	Blue, with open cable end



AUXILIARY WARNING LAMPS LED



C-LED V1



C-LED V2



C-LED module

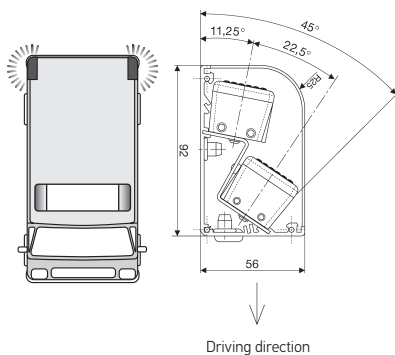
Corner-lamp system C-LED

Powerful corner-lamp system to safeguard rear of large vehicles, designed for installation in pairs: lateral-symmetrical design, specially developed optics for vertical mounting, 8 possible flash sequences, silver-coloured aluminium housing, scope of delivery: 1 piece

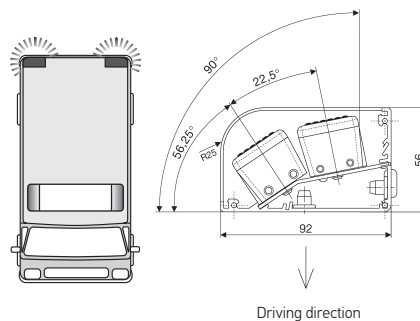
Light source	LED
Rated voltage	Multi-voltage (18 – 32 V)
Type approval	ECE-R65 (E)
EMC protection	CISPR 25, Class 5

2XD 009 475-021	12 V, blue, C-LED V1 – especially suitable for fire-fighting vehicles (2 pieces required)
2XD 009 475-001	24 V, blue, C-LED V1 – especially suitable for fire-fighting vehicles (2 pieces required)
2XD 009 475-031	12 V, blue, C-LED V2 – especially suitable for turntable ladder vehicles (2 pieces required)
2XD 009 475-011	24 V, blue, C-LED V2 – especially suitable for turntable ladder vehicles (2 pieces required)
2XD 009 475-031	12 V, blue, C-LED module – for individual vehicle solutions (4 pieces required)
2XD 009 475-011	24 V, blue, C-LED module – for individual vehicle solutions (4 pieces required)

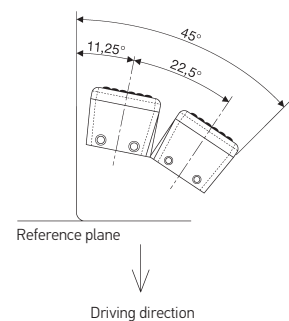
C-LED Variante 1



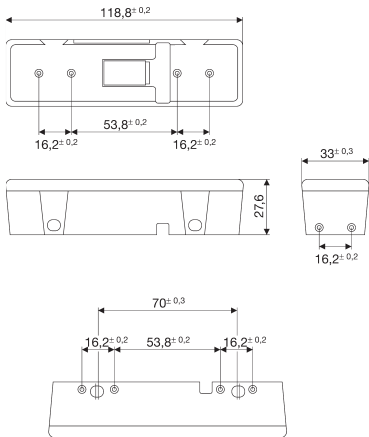
C-LED Variante 2



C-LED module



AUXILIARY WARNING LAMPS
LED



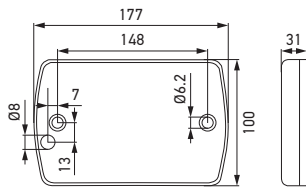
Warning lamps WL-LED

Auxiliary warning signal with multiple mounting options, 8 possible flashing sequences, apart from blue no ECE approval: Use only to such an extent as is permitted by law

Light source	12 LEDs
Rated voltage	Multi-voltage (12 / 24 V)
Protection class	IP 5K4K, IP 9K
Type approval	K ~ 385 (only applies to blue)
EMC protection	CISPR 25, Class 5
2XD 008 997-001	12 V, blue, without mounting frame
2XD 008 997-201	12 V, blue, with mounting frame
2XD 009 048-001	24 V, blue, without mounting frame
2XD 009 048-201	24 V, blue, with mounting frame
2XD 008 997-011	12 V, amber, without mounting frame
2XD 008 997-211	12 V, amber, with mounting frame
2XD 009 048-011	24 V, amber, without mounting frame
2XD 009 048-211	24 V, amber, with mounting frame
2XD 008 997-021	12 V, red, without mounting frame
2XD 008 997-221	12 V, red, with mounting frame
2XD 009 048-021	24 V, red, without mounting frame
2XD 009 048-221	24 V, red, with mounting frame
Accessories	
9XD 863 533-001	Angle brackets, 2 pieces, optional for mounting, at the side or rear
9XD 863 828-001	Mounting frame



AUXILIARY WARNING LAMPS LED

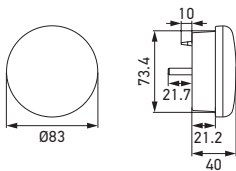


Warning lamp DURA LED

Auxiliary warning signal, compact design, 10 possible flashing sequences, easy mounting by means of concealed screw fastening, 2.5 m-long cable, no ECE approval: Use only to such an extent as is permitted by law

Light source	36 LEDs
Rated voltage	Multi-voltage (9 – 33 V)
Protection class	IP 6K6, IP 6K7
EMC protection	CISPR 25, Class 3

2XD 965 429-001	Blue
2XD 965 429-021	Amber
2XD 965 429-011	Red
2XD 965 429-031	Green



LED permanent signal lamps Ø 83 mm

Auxiliary warning signal, no ECE approval: Use only to such an extent as is permitted by law

Light source	12 LEDs
Rated voltage	Multi-voltage (9 – 33 V)
Protection class	IP 6K6, IP 6K7
EMC protection	CISPR 25, Class 3

On request	Blue
2XD 959 011-021	Amber
2XD 959 010-021	Red
2XD 959 010-721	Green

WORK LAMPS

Working at night or very early in the morning while it is still dark is no problem providing you have the right lamp to work with! HELLA work lamps generate the right illumination of the working area for every area of application. They have been specifically developed to illuminate as large an area as possible with a soft transition area at the edge. Work lamps can be used in the most varied of areas and environments. Whether that's in agriculture, on construction vehicles, with dangerous goods vehicles, towing vehicles or municipal vehicles. So that every move is right, even in the dark: See more, work with more precision and more safety – HELLA work lamps.





ILLUMINATION OF THE WORKING AREA

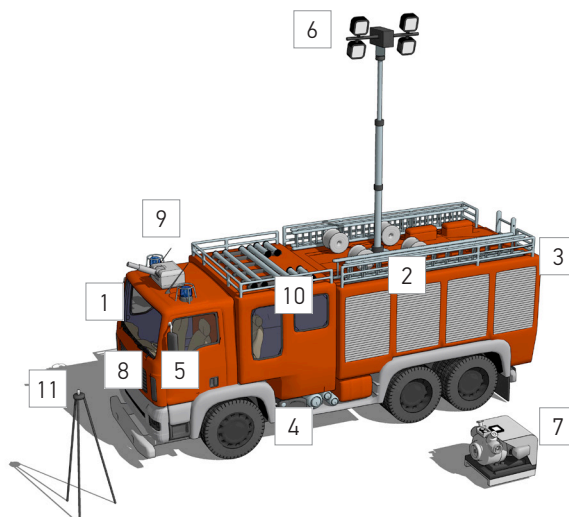
At night or early in the morning when it is still dark, additional illumination all around the vehicle is vitally needed. The HELLA work lamps fulfil this purpose precisely and provide suitable illumination for various areas of application. They have been specifically developed to illuminate as large an area as possible with a soft transition area at the edge.



REVERSE LAMPS

Reverse lamps illuminate the area behind the vehicle. They are exposed to the harshest operating conditions on a daily basis as a result of their low mounting position. The equipment needs to be particularly well protected against water, salt and stone chippings so as to prevent corrosion from occurring. That is why HELLA LED reverse lamps with their aluminium housing have a special coating to ensure that they can provide reliable, good light even when subjected to harsh conditions.

FIRE DEPARTMENT LED WORK LAMPS SELECTION GUIDE

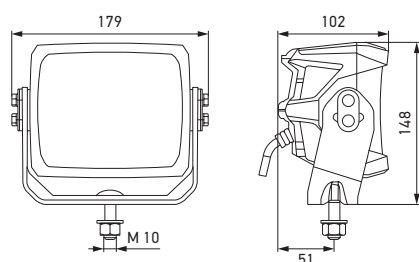


Product picture	Description	Light distribution	Volt	Connection	Light	Part number
	RokLUME 380 N	Close-range	24	DT connector	7,500 lm	1GA 996 197-031
		Long-range				1GA 996 197-021
		Spot				1GA 996 197-041
	HypaLUME 24/ 48 V DC	Close-range	24 / 48	DT connector	25,000 lm	1GJ 011 872-501
		Long-range				1GJ 011 872-511
		Extra-wide surface lighting				1GJ 011 872-521
	Ultra Beam LED Gen. 2	Close-range	12 / 24	DT connector	4,400 lm	1GA 995 606-001
		Long-range				1GA 995 606-011
		Spot				1GA 995 606-021
		Close-range (pipe socket fastening, heavy duty surrounding bracket)				1GA 995 606-141
		ZEROGLARE				1GA 995 606-171
	Ultra Beam LED Gen. 1	Close-range (with magnetic base)	12 / 24	DT connector	2,200 lm	1GA 995 506-111
	Power Beam 1000 compact	Close-range	12 / 24	DT connector	1,000 lm	1GA 996 188-501
		Long-range				1GA 996 188-511
		Reverse lamps				2ZR 998 188-521
		Reverse lamp (with mirror bracket)				2ZR 996 188-557
	Power Beam 1800 compact	Close-range	12 / 24	DT connector	1,850 lm	1GA 996 488-001
		Long-range				1GA 996 488-011
	ECO18 LED	Close-range	12 / 24	Cable	1,350 lm	1GA 996 479-001
		Long-range				1GA 996 479-011
		Reverse lamps				2ZR 996 479-501
	ECO26 LED	Close-range	12 / 24	Cable	2,000 lm	1GA 996 579-001
		Long-range				1GA 996 579-011
	Q90 LED compact	Close-range	12 / 24	Cable	1,200 lm	1GA 996 284-001
		Long-range				1GA 996 284-011
		Reverse lamps				2ZR 996 284-501
		Reverse lamp (with mirror bracket)				2ZR 996 284-527
	R120 S	Close-range (with handle and switch)	12 / 24	Cable	1,500 lm	1G2 996 220-007
	Module 70 LED hand-held searchlight	Spot	12 / 24	Cigarette lighter	800 lm	1H0 996 376-491
	Module 70 LED Gen. 4	Extra wide surface illumination (mounting)	12 / 24	Cable	2,500 lm	1G0 996 476-131
	SL60 LED	Light strip	12 / 24	Cable	Blue	1G0 996 210-001
					Red	
	FMS Base	Close-range	12 / 24	Cable	1,200 lm	1GD 996 098-001
	FMS Prime	Close-range			2,500 lm	1GD 996 098-011
	Flat Beam 1000	Close-range(45° illumination)	12 / 24	Cable	1,000 lm	1GA 996 193-051
	LED Light Bar 350	Close-range	12 / 24	Cable	2,200 lm	1GJ 958 040-501
	LED Light Bar 470 Diffuse Flood	Diffuse Flood	12 / 24	Cable	3,600 lm	1GJ 958 130-521

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WORK LAMPS

ILLUMINATION OF THE WORKING AREA



RokLUME 380 N

Die-cast aluminium housing, surface coating "NanoSafe non-stick easy to clean", 300 mm cable, DEUTSCH connector

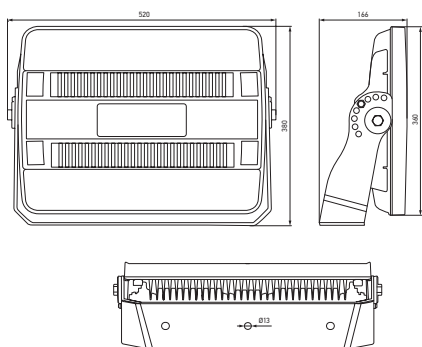
Light source	LED
Rated voltage	Multi-voltage (20 – 32 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	7,500 lm
Power requirement	84 W
Colour temperature	5,000 K

1GA 996 197-011	Close-range illumination
1GA 996 197-021	Long-range illumination
1GA 996 197-031	Extra wide illumination
1GA 996 197-041	Spot illumination
1GA 996 197-001	ZEROGLARE*

*ZEROGLARE

ZEROGLARE variants boast illumination with special lens optics. The **ZEROGLARE** system ensures that drivers in oncoming vehicles are not dazzled. The cut-off line is very sharp and the light of the **ZEROGLARE** headlamp is directed specifically at the area in front of the vehicle.

WORK LAMPS
ILLUMINATION OF THE WORKING AREA



HypaLUME 24/48 V DC

Intensive illumination, 1,800 mm cable, DEUTSCH connector

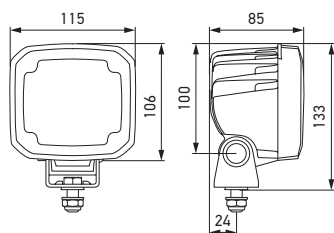
Light source	LED
Rated voltage	Multi-voltage (22 – 52 V)
Protection class	IP 6K9K, IP 6K7
Light output (measured)	25,000 lm
Power requirement	260 W
Colour temperature	5,700 K

1GJ 011 872-501	Close-range illumination
1GJ 011 872-511	Long-range illumination
1GJ 011 872-521	Extra wide illumination



WORK LAMPS

ILLUMINATION OF THE WORKING AREA

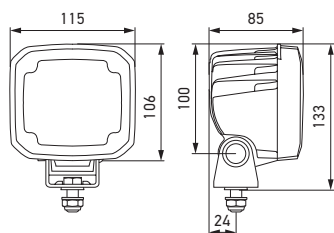


Ultra Beam LED Gen. 1

Ideal for light masts, high-quality aluminium housing, with handle for easy setting of the angle, DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	2,200 lm
Power requirement	30 W
Colour temperature	6,500 K

1GA 995 506-111	Magnetic base, close-range illumination
1GA 995 506-091	Pipe socket mounting, close-range illumination



Ultra Beam LED Gen. 2

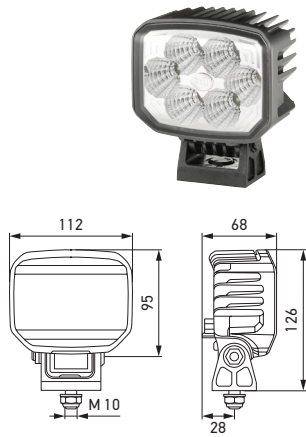
Ideal for light masts, high-quality aluminium housing, DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	4,400 lm
Power requirement	50 W
Colour temperature	6,500 K

1GA 995 606-001	Close-range illumination
1GA 995 606-141	Pipe socket mounting, close-range illumination, heavy duty surrounding bracket
1GA 995 606-011	Long-range illumination
1GA 995 606-021	Spot illumination
1GA 995 606-171	ZEROGLARE*

WORK LAMPS

ILLUMINATION OF THE WORKING AREA

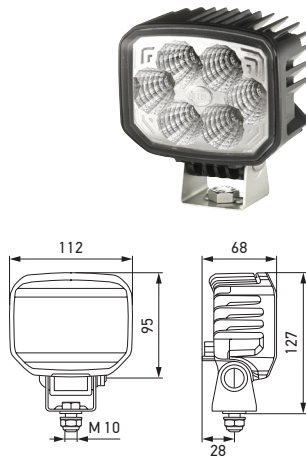


Power Beam 1800 compact

Thermally conductive plastic housing, DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (10.5 – 32 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	1,850 lm
Power requirement	26 W
Colour temperature	6,500 K

1GA 996 488-001	Close-range illumination
1GA 996 488-011	Long-range illumination



Power Beam 1000 compact

Thermally conductive plastic housing, DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (10.5 – 32 V)
Protection class	IP 6K9K, IP 6K7
Light output (measured)	1,000 lm
Power requirement	12 W
Colour temperature	6,500 K

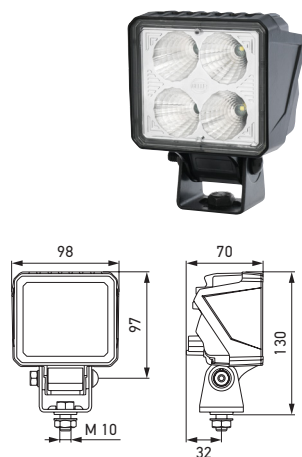
1GA 996 188-501	Close-range illumination
1GA 996 188-511	Long-range illumination

Reverse lamps

2ZR 996 188-521	5,000 K, DT connector
2ZR 996 188-557	5,000 K, with mirror bracket

WORK LAMPS

ILLUMINATION OF THE WORKING AREA



ECO18 LED

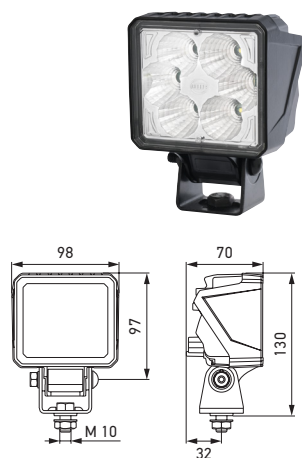
High-quality aluminium housing, some with DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (10.5 – 32 V)
Protection class	IP 6K9K, IP 6K7
Light output (measured)	1,350 lm
Power requirement	18 W
Colour temperature	6,500 K

1GA 996 479-001	Close-range illumination, 500 mm cable
1GA 996 479-021	Close-range illumination, DT connector
1GA 996 479-011	Long-range illumination, 500 mm cable
1GA 996 479-031	Long-range illumination, DT connector

Reverse lamps

2ZR 996 479-501	5,000 K, 2,000 mm cable
2ZR 996 479-511	5,000 K, DT connector



ECO26 LED

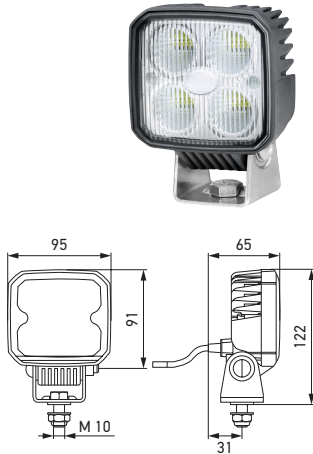
High-quality aluminium housing, some with DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (10.5 – 32 V)
Protection class	IP 6K9K, IP 6K7
Light output (measured)	2,000 lm
Power requirement	26 W
Colour temperature	6,500 K

1GA 996 579-001	Close-range illumination, 500 mm cable
1GA 996 579-021	Close-range illumination, DT connector
1GA 996 579-011	Long-range illumination, 500 mm cable
1GA 996 579-031	Long-range illumination, DT connector

WORK LAMPS

ILLUMINATION OF THE WORKING AREA



Q90 LED compact

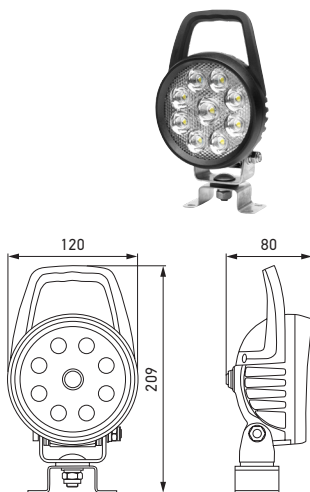
Thermally conductive plastic housing, some with DEUTSCH plug

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	1,200 lm
Power requirement	15 W
Colour temperature	6,500 K

1GA 996 284-001	Close-range illumination, 200 mm cable
1GA 996 284-081	Close-range illumination, 150 mm cable and DT connector
1GA 996 284-011	Long-range illumination, 200 mm cable

Reverse lamps

2ZR 996 284-501	1,000 lm, 5,000 K, 2,000 mm cable
2ZR 996 284-511	1,000 lm, 5,000 K, 500 mm cable and DT connector
2ZR 996 284-527	1,000 lm, 5,000 K, with mirror bracket



R120 S

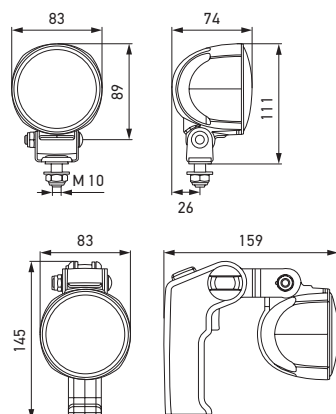
Die-cast aluminium housing, optimal illumination for work all around the vehicle, practical handle, easy-to-operate on and off switch

Light source	LED
Rated voltage	Multi-voltage (10 – 30 V)
Protection class	IP 6K7, IP 6K9K
Light output (measured)	1,500 lm
Power requirement	23 W
Colour temperature	6,500 K

1G2 996 220-007	Close-range illumination, 3,000 mm cable
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WORK LAMPS

ILLUMINATION OF THE WORKING AREA



Module 70 LED Gen. 3

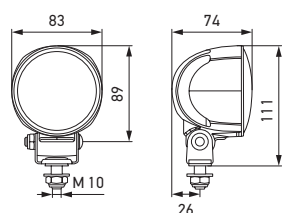
High-quality aluminium housing, some with DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K7
Light output (measured)	800 lm
Power requirement	13 W
Colour temperature	6,500 K

1G0 996 276-481	Close-range illumination, 200 mm cable and DT connector
1G0 996 376-501	Close-range illumination, 2,000 mm cable, swivel joint
1G0 996 376-001	Long-range illumination, 2,000 mm cable
1G0 996 276-701	Spot illumination, 2,000 mm cable, blue lens to penetrate, for example, spray and mist
1H0 996 376-491	Spot illumination, hand-held searchlight

Reverse lamps

2ZR 996 376-091	6,500 K, 2,000 mm cable
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Module 70 LED Gen. 3.2

Ideal for mounting positions in confined spaces, high-quality aluminium housing, some with DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	1,800 lm
Power requirement	20 W
Colour temperature	6,500 K

1G0 996 576-031	Close-range illumination, 2,000 mm cable
1G0 996 576-041	Close-range illumination, DT connector
1G0 996 576-001	Long-range illumination, 2,000 mm cable
1G0 996 576-011	Long-range illumination, DT connector

WORK LAMPS
ILLUMINATION OF THE WORKING AREA



Module 70 LED Gen. 4

Ideal for mounting positions in confined spaces, high-quality aluminium housing

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	2,500 lm
Power requirement	30 W
Colour temperature	6,500 K

1G0 996 476-001	Close-range illumination, 2,000 mm cable
1G0 996 476-011	Long-range illumination, 2,000 mm cable
1G0 996 476-031	Extra wide illumination, 2,000 mm cable
1G0 996 476-131	Extra wide illumination, flush mounting, 2,000 mm cable



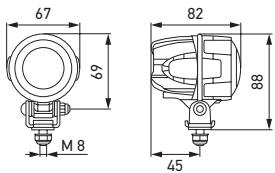
Module 50 LED

Ideal for object illumination in confined spaces, with DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (9 – 50 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	800 lm
Power requirement	15 W
Colour temperature	6,500 K

1G0 995 050-001	Close-range illumination, surface-mounting, upright
1G0 995 050-021	Long-range illumination, surface-mounting, upright

WORK LAMPS
ILLUMINATION OF THE WORKING AREA

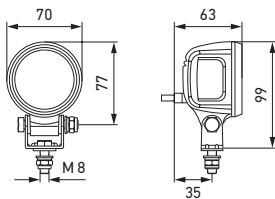


Module 50 LED Spot

Projection of a warning point on the ground, various light colours available, with DEUTSCH connector

Light source	LED
Rated voltage	Multi-voltage (9 – 52 V)
Protection class	IP 6K9K, IP 6K8
Power requirement	15 W

1G0 995 050-051	White warning point
1G0 995 050-061	Blue warning point
1G0 995 050-071	Green warning point
1G0 995 050-081	Red warning point



SL60 LED

Projection of a warning line, blue or red light colour, 500 mm cable

Light source	LED
Rated voltage	Multi-voltage (10 – 80 V)
Protection class	IP 6K9K, IP 6K8
Power requirement	15 W

1G0 996 210-001	Blue warning line
1G0 996 210-011	Red warning line

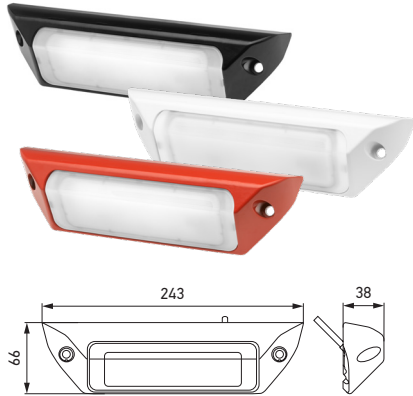
Module 50 LED Spot

SL60 LED



WORK LAMPS

ILLUMINATION OF THE WORKING AREA



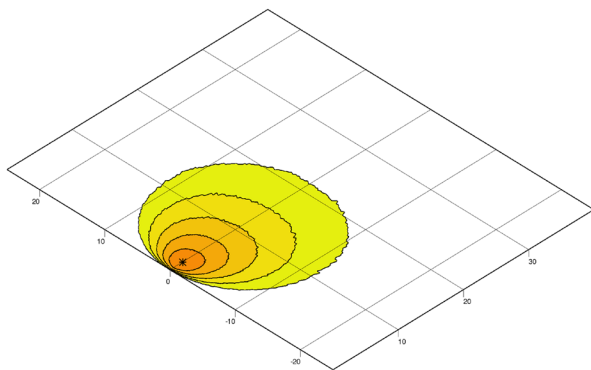
FMS Base/Prime

Work lamp for flat mounting on the vehicle wall, perfect close-range illumination all around the vehicle, homogeneous light distribution, impact-resistant plastic housing in various colours, 500 mm cable

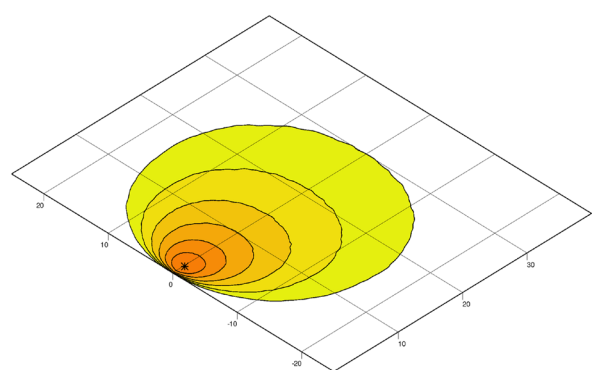
Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	1,200 lm (Base) 2,500 lm (Prime)
Power requirement	14 W (Base) 28 W (Prime)
Colour temperature	6,500 K

1GD 996 098-001	Base, black housing, close-range illumination
1GD 996 098-501	Base, white housing, close-range illumination
1GD 996 098-301	Base, red housing, close-range illumination
1GD 996 098-011	Prime, black housing, close-range illumination
1GD 996 098-511	Prime, white housing, close-range illumination
1GD 996 098-311	Prime, red housing, close-range illumination

Isolux diagram FMS Base



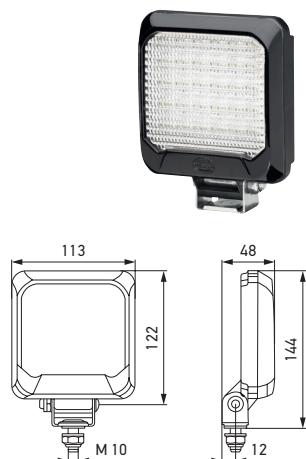
Isolux diagram FMS Prime



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WORK LAMPS

ILLUMINATION OF THE WORKING AREA

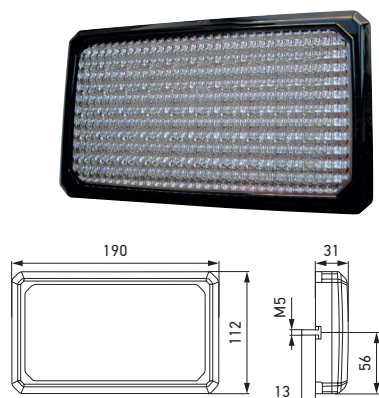


Flat Beam 500

Impact-resistant plastic housing, good close-range illumination even with flat wall mounting, 45° illumination as standard, 2,000 mm cable

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K7
Light output (measured)	550 lm
Power requirement	7 W
Colour temperature	6,500 K

1GA 995 193-001	Surrounding bracket, close-range illumination
1GA 995 193-021	Wall mounting, close-range illumination



Flat Beam 1000

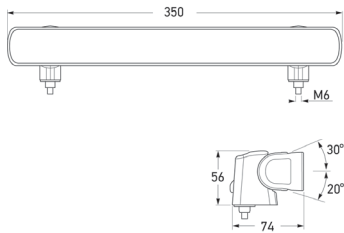
Impact-resistant plastic housing, 2,000 mm cable

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K7
Light output (measured)	1,000 lm
Power requirement	11 W
Colour temperature	6,500 K

1GA 996 193-001	Surrounding bracket, close-range illumination
1GA 996 193-011	Wall mounting, close-range illumination
1GA 996 193-051	Wall mounting, 45° illumination, close-range illumination

WORK LAMPS

ILLUMINATION OF THE WORKING AREA

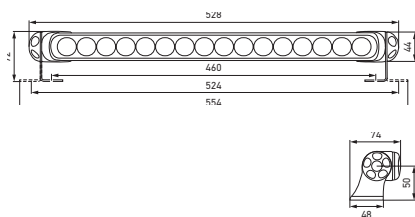


LED Light Bar 350

Particularly corrosion-resistant thanks to plastic housing, offers very wide light distribution, modular mounting concept, 2,500 mm cable

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K7
Light output (measured)	2,200 lm
Power requirement	25 W
Colour temperature	5,000 K

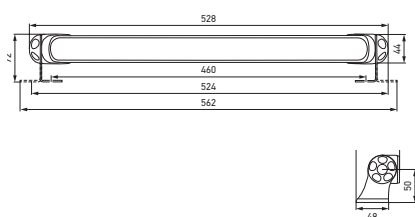
1GJ 958 040-501	Close-range illumination
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LED Light Bar 470

Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K7
Light output (measured)	2,800 lm
Power requirement	36 W
Colour temperature	5,000 K

1GJ 958 130-621	Close-range illumination
1GJ 958 130-651	Long-range illumination



LED Light Bar 470 Diffuse Flood

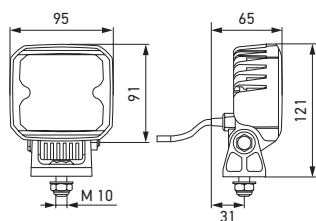
Light source	LED
Rated voltage	Multi-voltage (9 – 32 V)
Protection class	IP 6K9K, IP 6K8
Light output (measured)	3,600 lm
Power requirement	36 W
Colour temperature	5,000 K

1GJ 958 130-521	Diffuse Flood
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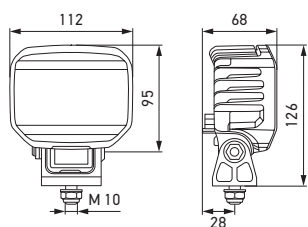
WORK LAMPS

REVERSE LAMPS



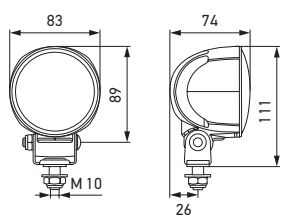
Q90 LED compact

- 2ZR 996 284-501** Reverse lamp, 1,000 lm, 5,000 K, 2,000 mm cable
- 2ZR 996 284-511** Reverse lamp, 1,000 lm, 5,000 K, 500 mm cable and DT connector
- 2ZR 996 284-527** Reverse lamp, 1,000 lm, 5,000 K, with mirror bracket



Power Beam 1000 compact

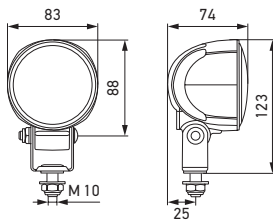
- 2ZR 996 188-521** Reverse lamp, 1,000 lm, 5,000 K, DT connector
- 2ZR 996 188-557** Reverse lamp, 1,000 lm, 5,000 K, with mirror bracket



Module 70 LED Gen. 3.2 compact

- 2ZR 996 576-621** Reverse lamp, 1,000 lm, 5,000 K, 2,000 mm cable

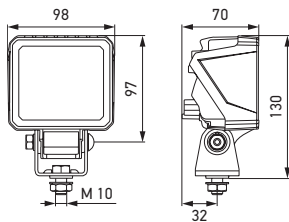
WORK LAMPS REVERSE LAMPS



Module 70 LED Gen. 3

2ZR 996 376-091

Reverse lamp, 6,500 K, 2,000 mm cable



ECO18 LED

2ZR 996 479-501

Reverse lamp, 5,000 K, 2,000 mm cable









2ZR 996 479-511

Reverse lamp, 5,000 K, DT connector






WORK LAMPS

ACCESSORIES

Product picture	Description	Part number
	Tubular steel tripod Telescopic from 1,263 up to 2,200 mm, with push-on attachment pin Ø 30 mm, welded to vehicle body or fixed using clamps	8XT 002 120-001
	Tubular steel tripod Telescopic from 1,051 to 1,650 mm, with push-on attachment pin Ø 30 mm	8XT 002 117-001
	Roof plinth For mounting work lamps on vehicle roof or other horizontal body surfaces, with push-on attachment pin Ø 30 mm	8XT 002 121-001
	Joint adapter/reducer adapter Lower part fits on push-on attachment pin Ø 30 mm, upper part with push-on attachment pin Ø 24 mm	9XS 027 639-001
	Universal brackets For work lamps, can be used with push-on attachment pins Ø 30 mm	8HG 159 455-001
	Universal brackets For work lamps, can be used for beacon socket pipe Ø 24 mm, DT connector	8HG 990 320-011
	Connector in accordance with DIN 14690, 2-pin, with union nut	8JA 001 925-001
	Socket in accordance with DIN 14690, 2-pin, with screw cap, base Ø 63 mm	8JB 002 281-001

WORK LAMPS ACCESSORIES

Product picture	Description	Part number
	Mounting bracket For four-point mounting of work lamps and surface-mounted headlamps with M 10 fastening screw	9XD 130 261-001
	Magnetic mounting bracket For mounting bracket 9XD 130 261-001 consisting of 2 magnets	8HG 004 806-001
	Rotating universal bracket For mounting on pipes (diameter: 15 – 25 mm). For replacement on work lamps with 36 mm or 42 mm bracket width.	
	36 mm bracket width Model series: Oval 90, Module 70, PowerXen and Flat Beam 500	8HG 990 263-111
	42 mm bracket width Model series: Ultra Beam, Mega Beam, Oval 100, Double Beam, AS 200, Power Beam, Module 90, Q90 LED and AP 1200 LED	8HG 990 263-131

More accessories can be found on page 38/39.



ELECTRONICS

In addition to our wide range of lighting, we also offer a large selection of useful "assistants" in the field of electronics. Our sensors see to measuring and controlling while convenient operating systems succeed in making your work even easier. Other electronic components reliably perform important tasks in the background, ensuring the smooth running of procedures and a vehicle that is always ready for operations.

Energy management

Intelligent battery sensors

Environmental and medium sensors

Rain-light sensors

Position sensors

Accelerator pedal sensors



Angular position sensors

Steering torque and
angle sensors (TAS / TOS)**Actuators**

Actuators (Low Force)



Actuators (Medium Force)



Actuators (High Force)



Actuators (Smart URA)



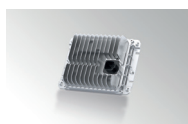
Universal Turbo Actuators (UTA)

Operating systems – vehicle/driver interface

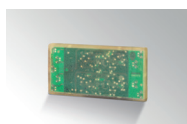
Rocker switches



Electronic immobiliser

Lighting electronics

LED lamp control unit

Control unit for flashing side
marker lamps

Simulation device for cold check

Control unit for
current monitoring**Acoustic signal devices**

Reversing and warning alarm

**Electronics tool**

The electronics tool informs you quickly and clearly about which electronic products HELLA offers for special original equipment. First of all, select the relevant vehicle or area of application (drivetrain or cab). After selecting the appropriate product via mouse click, you will receive further information and also PDFs with important details and technical data for downloading. Furthermore, the tool provides clear animations showing how the products work.

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NOTES

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