

BRIEF INFORMATION

Full LED combination rear ... 011 900-...
for agricultural and construction vehicles

- 12 V or 24 V
- ECE / SAE versions
- Can be installed horizontally
- Maintenance-free, fully sealed LED light
- Highly resistant lens

PRODUCT FEATURES

Indicator failure check

The indicator function is available with and without pulse for indicator failure check. The patented HELLA monitoring system for indicators allows the indicator to be used in line with the requirements of ECE-R 48.

Product variants

These flat installed lights are available in 12 V and 24 V versions as well as ECE and SAE variants. Various application options on the vehicle can be achieved with additional circuit groups.

Contacts

A 4-pole DEUTSCH plug (DT 04-4P) is integrated into the light. This can be connected with the mating plugs "DEUTSCH DT 06-4S" or "Amphenol AT 06-4S".

Protection class

Tested to IP 6K9, this light is protected from dust and water ingress under constant immersion. This means they are also able to withstand high-pressure cleaning.

Polarity reversal protection

The light does not suffer any damage if the poles are connected incorrectly.

PRODUCT FEATURES

Overvoltage protection

Overvoltage protection ensures that the lamp is not damaged even with voltage peaks acc. to ISO 7637.

High vibration resistance

Tested in accordance with HELLA standard 67101 class 7.2, enables use near heavy construction machinery.

12 LEDs for the best possible signal pattern

The light achieves maximum light yield through a combination of premium LEDs and precision optics. Six LEDs form the rear light, another six form the indicator.

LED LIGHTING TECHNOLOGY

As a leading innovator in the field of automotive original equipment, HELLA is setting benchmarks:

Extremely low energy consumption

By combining efficient light diodes (LEDs) with precision lenses, HELLA lights achieve the light distribution specified by law while using up to 93 % less power than filament bulbs!

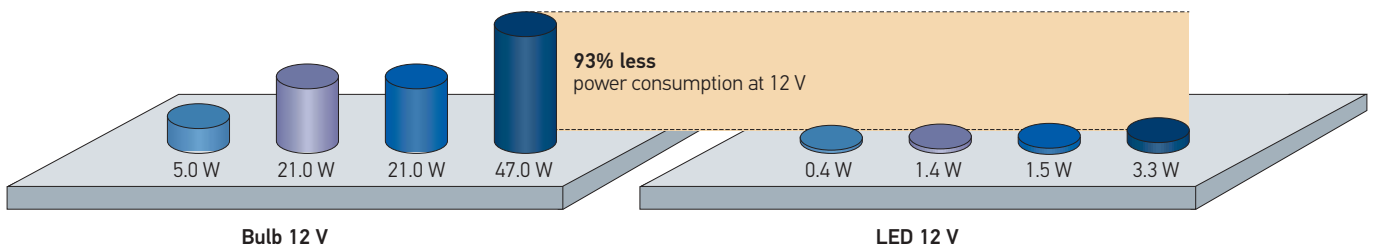
No light-source replacement, no maintenance and extremely long service life

These products are built for durability over the vehicle's service life through the use of quality LEDs and good thermal management. All the components are perfectly attuned to one another's temperatures, which prevents the LEDs overloading at extremely high ambient temperatures.

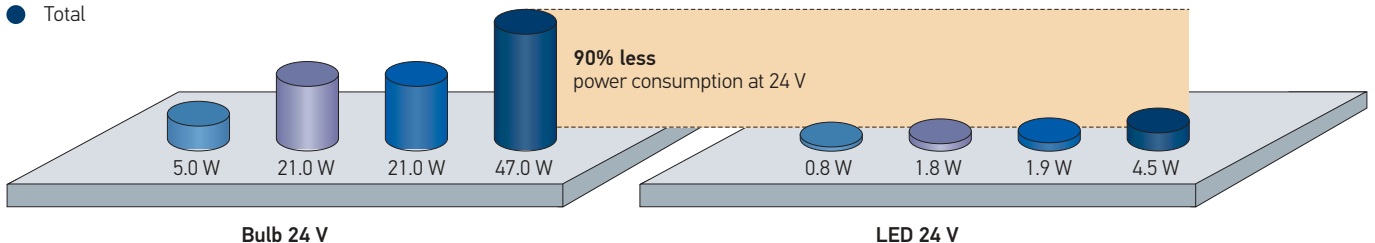
Indicator failure check

The indicator function is monitored by the electronics system, which generates current pulses for the direction indicator input at defined points in time. For each indicator pulse, the upstream flasher within the vehicle electric system expects to receive the pulse after 100 ms – for at least 20 ms. If components or LEDs of the indicator function are defective, this is detected by the electronics: no pulse is sent. Therefore, the driver is definitively informed of the indicator failure. This fulfils the legal requirement for indicator failure detection (in accordance with the ECE regulation). The following ballasts are suitable for almost any application: 5DS 009 552-... / 5DS 009 602-... / 4DW 009 492-...

PERFORMANCE COMPARISON OF BULB-BASED AND LED LIGHTS



- Rear light
- Brake light
- Indicator
- Total



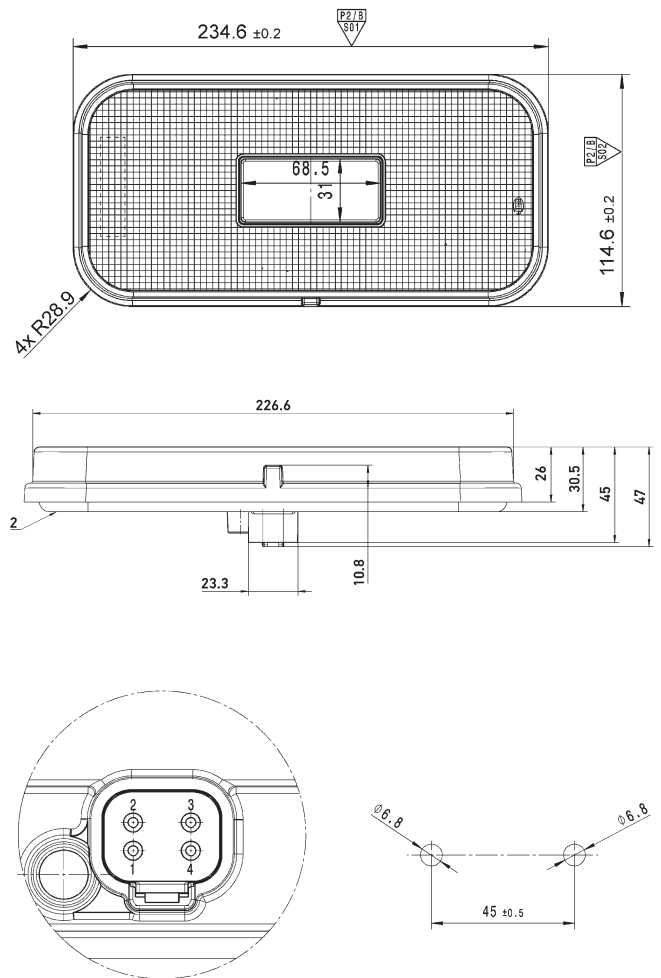
TECHNICAL DETAILS

Technical specifications

Type test	ECE/SAE for vehicles >2031 mm/EMC	
Functions	<ol style="list-style-type: none"> 1. Rear-stop light with 6 red LEDs reduced light output in rear light 2. Indicator ECE with 6 amber LEDs 3. Indicator SAE with 6 red LEDs 4. Reflex reflector 	
Dimensions	234.6 x 114.6 x 47 mm	
Specification	HELLA standard 67101 class 7.2 Agro Plus	
Current consumption at 12 V	Rear light	0.4 W-0.03 A
	Brake light	1.4 W-0.1 A
	Indicator	1.4 W-0.1 A
Current consumption at 24 V	Rear light	0.8 W-0.03 A
	Brake light	1.8 W-0.08 A
	Indicator	1.9 W-0.08 A
IP protection class	IP 6K9K	
EMC approval	For functions with active electronics	
Contacts	With integrated 4-pole DEUTSCH plug DT 04-4P	
Attachment position	horizontal	
Fixing	With 2 x M6 screws with bore intervals at 45, can be screwed from the front through the lens. The screws are hidden by the reflex reflector 8RA 004 412-02 (included in delivery), which is attached afterwards.	

Note: The individual functions of the light must only be operated with a 3 A fuse. Operation of the light with AC voltage or synchronised DC voltage is not permitted.

Technical drawing



Pin assignment

- 1 Indicator
- 2 Rear light
- 3 Ground
- 4 Brake light

Hole pattern

APPLICATION EXAMPLES



RANGE OVERVIEW



Part number	Function	Type test	Voltage	PU
2VA 011 900-001 ^{1) 3)}	Rear-stop-indicator light with reflex reflector with indicator failure check	ECE	12 V	1
2VA 011 900-011 ¹⁾	Rear-stop-indicator light with reflex reflector without indicator failure check	ECE	12 V	1
2VA 011 900-021 ^{2) 3)}	Rear-stop-indicator light with reflex reflector with indicator failure check	ECE	24 V	1
2VA 011 900-031 ²⁾	Rear-stop-indicator light with reflex reflector without indicator failure check	ECE	24 V	1
2VA 011 900-041 ¹⁾	Rear-stop-indicator light with reflex reflector without indicator failure check	SAE	12 V	1

SPARE PARTS / ACCESSORIES

Part number	Function	Type test	Voltage	PU
8KA 197 041-001	200 mm circuit grouping with 4-pole DEUTSCH DT 06-4S plug for connection to light and other side with 4-pole AMP Superseal plug	-	-	1
8KA 197 041-011	500 mm circuit grouping with 4-pole DEUTSCH DT 06-4S plug for connection to light and other side with open wire ends	-	-	1
8RA 004 412-021	Self-adhesive reflex reflector/service part	ECE/SAE	-	20
8KW 732 580-003	Insulating screw connector A 114 blue, butt-joint connector			25
8KW 744 808-801	Insulating screw connector B 06, Superseal, 4-pole			1