

Round combination rearlight 959 010/959 011 (Ø 83 mm)

Brief
Information



Rear lighting

LED lights in 24 V and 9–33 V

- *For flush-mounting*
- *Long service-life with low current consumption*

Product features



Fastening

Fastening is by means of a single central stainless steel bolt, improving durability and ease of installation.

GGVS

The light is certified for GGVS/ADR for use on trucks transporting hazardous goods.

Complete product family

Alongside 24 V versions (tail, stoplight and indicator), the rear fog light and reverse light are also available as Multivolt 9–33 V version.

Flush-mounted version

For flat appearance.

Long service life and low energy consumption

With innovative LED technology and effective thermal management, these products have been designed with a life cycle as long as that of the vehicle, and thus represent an environmentally friendly “fit and forget” solution. The latest in LED technology makes an optimum signal image possible at low power consumption levels. The sturdy lens is made of high-grade UV-resistant and impact-resisting plastic, thus lessening damage done by branches and reducing maintenance costs.

High vibration resistance

The lights have been tested according to Hella standard 67001 Class 10. Their high vibration resistance even makes the products ideal for use on heavy construction machinery.

Installation

The light is equipped with a 2.5 m cable with open ends, making it easy to connect up.

Sealed in order to withstand high-pressure cleaning

Tested according to Hella standard 67001 IP 6K9K, IP 6K7. Lights withstand high-pressure cleaning and short-term submersion in water.

Reverse polarity protection

If the contact to the pole is faulty, no damage will occur.



**Ideas today for
the cars of tomorrow**

LED lighting technology

As an innovative leader in the supply of automotive original equipment Hella is setting standards with LED lighting products, too.

The advantages of modern LED lighting technology at a glance:

Extremely low energy consumption

Thanks to the combination of efficient light diodes (LEDs) and precision optics, the Hella signal lights achieve the mandatory light distribution – despite using 85 % less power compared to bulb-based lights!

No light-source replacement, no maintenance and extremely long service life thanks to effective thermal management

To extend the light's service life, all the components have been matched optimally in terms of temperature. This prevents LED overload in the event of increased ambient temperatures. Thanks to the use of top-quality LEDs and optimised thermal management, these products have been designed with a service life as long as that of the vehicle, and are thus a convincing, economical and eco-friendly "fit and forget" solution.

LED Multivolt-technology

Multivolt- circuits stabilise the light output over a voltage range of 9 to 33 volts. This allows the same Hella combination signal light to be used for both 12 and 24 Volt applications. In addition, Multivolt also compensates for voltage fluctuations which arise through the use of long cables and plug-type connections within the vehicle electric system. In addition, Hella Multivolt- circuits are protected from inverse polarity and voltage peaks – even at low battery voltages.

Indicator failure check

The indicator function is monitored by the electronics. It produces a current pulse for the indicator input; this current pulse is generated at a defined point in time. For every flashing pulse, the flasher unit ballast in the vehicle electric system demands this pulse for at least 107 ms every 100 ms. If components or LEDs of the indicator function are defective, this is detected by the electronics: the pulse is absent. This way, the driver is always informed about the indicator failure. This is important for the legally prescribed indicator failure detection (in accordance with ECE regulation).

The following three ballasts cover almost all applications:

5DS 009 552- ...

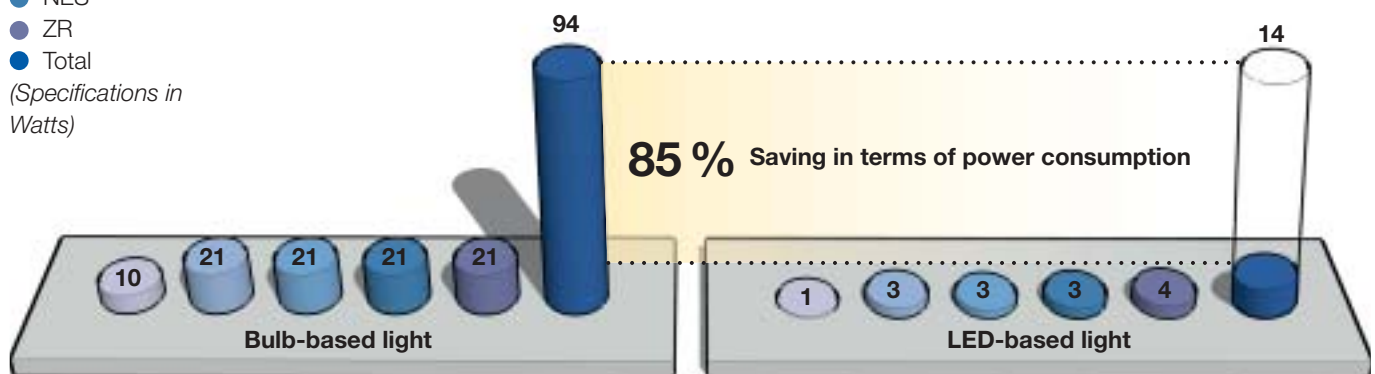
5DS 009 602- ...

4DW 009 492- ...

Comparison of the performance of bulb-based and LED light

- Tail
- Indicator
- Stop
- NES
- ZR
- Total

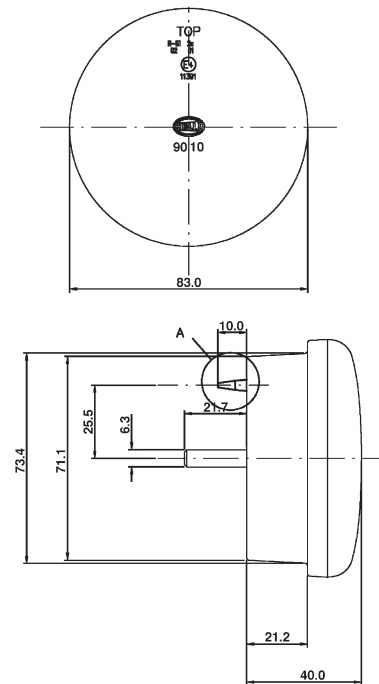
(Specifications in Watts)



Technical details

Technical data	
Type approval	BL/SB: ECE (E4) 12373 ZR/NES: (E4) 11391
Approval	GGVS/ADR
EMC approval	(E4) 03 1671
Functions	Taillight 12 red LEDs Indicator 12 yellow LEDs Stoplight 12 red LEDs Rear fog light 24 red LEDs Reverse light 24 white LEDs
Failure check	integrated for the indicator
Current consumption:	Taillight: 1 W Indicator: 3 W Stoplight: 3 W Rear fog light: 3 W Reverse light: 4 W
Reverse polarity protection	yes (up to 1000 V)
Specification	Hella standard 67001 Class 10
Dimensions	Ø 83 mm, design depth 40 mm
Operating temperature	-40 °C to +60 °C
IP protection class	IP 6K9K, IP 6K7
Fastening	by means of a stainless steel bolt in the centre of the housing with washer and nut
Electrical connection	2.5 m cable with open ends

Technical drawing







Cable colours		
Execution	Function	Colour
Taillight, stoplight	Ground	white
	Taillight	brown
	Stoplight	red
Indicator	Ground	white
	Indicator	red
Reversing spotlight	Ground	white
	Reversing spotlight	yellow
Rear fog light	Ground	white
	Rear fog light	yellow

Application examples



Range overview

Product photo	Part number	Specification	Voltage	Type approval	Packaging unit	GGVS/ADR
	2SB 959 010-301	Combined tail/stop light for flush-mounting. Red lens. With 12 LEDs and 2500 mm cable, with open ends.	24 V	ECE E4 12373	1 unit	yes
	2SB 959 010-307		24 V	ECE E4 12373	10 units	yes
	2BA 959 011-301	Rear indicator Yellow lens with 12 LEDs and 2500 mm cable, with open ends.	24 V	ECE E4 12373	1 unit	yes
	2BA 959 011-307		24 V	ECE E4 12373	10 units	yes
	2ZR 959 010-501	Reverse light Clear lens with 24 white LEDs and 2500 mm cable, with open ends.	9–33 V	ECE E4 11391	1 unit	yes
	2ZR 959 010-507		9–33 V	ECE E4 11391	10 units	yes
	2NE 959 011-501	Rear fog light Clear lens with 24 red LEDs and 2500 mm cable, with open ends.	9–33 V	ECE E4 11391	1 unit	yes
	2NE 959 011-507		9–33 V	ECE E4 11391	10 units	yes

The individual light functions may only be operated with a vehicle fuse of max. 3A.