

Tail-stop-indicator light Oval LED combination rearlight (2.. 343 390)

Brief
Information



Rear Lighting

- *Multi-voltage from 9–32 V*
- *Long service life with lower power consumption*

Product features



- Modern design with brilliant finish
- Compact design
- For variable use
- Horizontal or vertical (SB, BL and SBBL)
- Only vertical (SBBL with housing)
- Right and left surface mounting/flush mounting
- Thanks to innovative LED technology and competent thermal management, a long service life is achieved for the light. Low energy consumption and no maintenance costs - "Fit and Forget" - make this product the perfect environmentally friendly light.
- High vibration resistance
- Tested to Hella Norm 67001 Class 10, allows use even in the heavy construction machinery sector.



*Ideas today for
the cars of tomorrow*

LED lighting technology

As a leader in innovation in the field of automotive original equipment, Hella is setting standards through products using LED lighting technology, too.

An overview of the advantages of modern LED lighting technology:

Extremely low energy consumption

Thanks to the combination of efficient light-emitting diodes (LEDs) and precision lenses, Hella signal lamps achieve the legally prescribed light distribution – despite using 92 % less power than light bulb versions!

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

To increase light service life, all components are perfectly aligned with each other optimised for temperature. This will avoid overloading the LEDs at high ambient temperatures. Using quality LEDs and good thermal management, these products are designed for endurance throughout the service life of the vehicle thus representing a convincing, economic and environmentally friendly “Fit and Forget” solution.

LED Multivolt technology

Multivolt circuits keep the light output constant over a voltage

range of 9 to 33 Volts. This makes it possible to use the same Hella signal lamp for 12 and 24 Volt applications. In addition, Multivolt also compensates for voltage fluctuations which arise through the use of long cables and plug-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. This generates a current pulse at a defined time for the indicator input. 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 in the indicator function are faulty, this is detected by the electronics: the pulse is not emitted. This way, the driver is always informed about the indicator failure. This meets the legal requirement for indicator failure detection (according to ECE regulation).

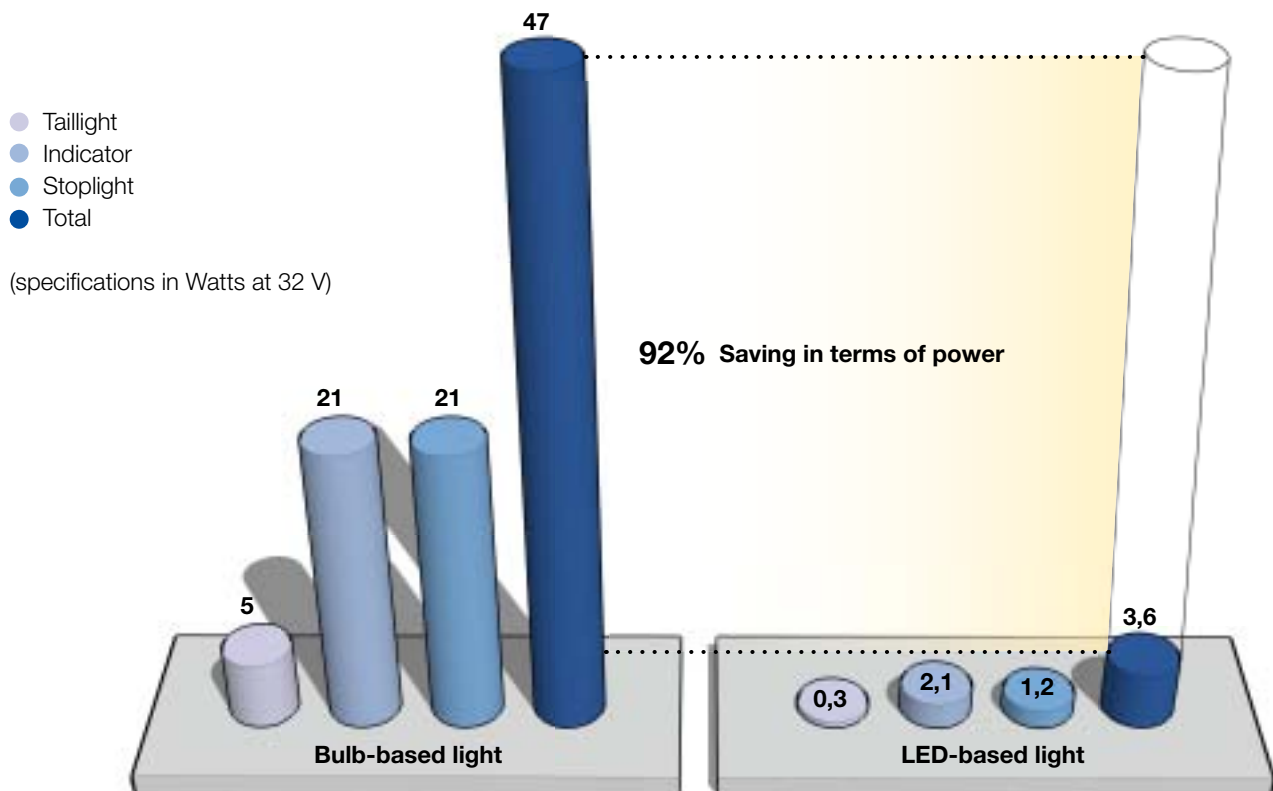
The following three ballasts cover almost all application cases:

5 DS 009 552- ...


5 DS 009 602- ...

4 DW 009 492- ...

Performance comparison of bulb-based and LED-based tail-stop-indicator light

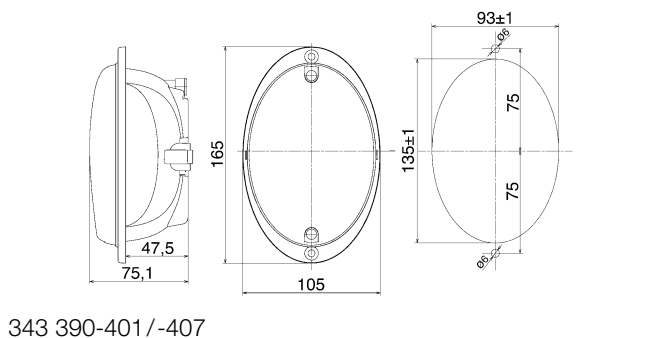
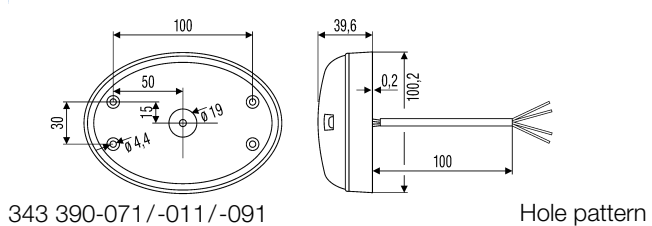


Technical details

Technical data	
Type approval	ECE
Failure check	integrated for indicator
Specification	Hella Norm 67001 Class 10 Construction machinery
Overvoltage protection	100 V
Operating temperature	-40 °C to +60 °C
IP protective class	IP 6K9K
EMC approval	 03 4631
Service life	30,000 h*
Counterplug for SBBL	Deutsch DT06-4S to be purchased from -401 / -407

(* depending on the ambient temperature)

Technical drawing


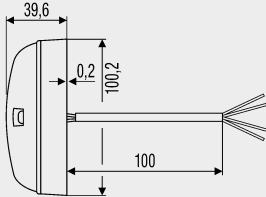

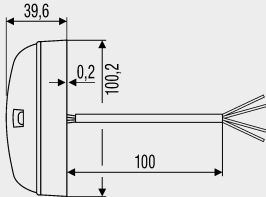

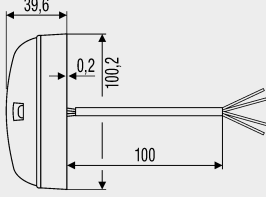

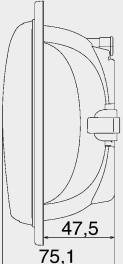


Part Number	Function	Number of LEDs	Watts at 9 V	Current consumption at 9 V	Watts at 32 V	Current consumption at 32 V	
2SD 343 390-011 2SD 343 390-401 2SD 343 390-407	SBBL	Taillight, stoplight indicator	12 red (reduced power)	0,2 W	approx. 0,02 A	0,3 W	approx. 0,01 A
			12 red	0,9 W	approx. 0,1 A	1,2 W	approx. 0,04 A
			12 amber	1,2 W	approx. 0,13 A	2,1 W	approx. 0,07 A
2BA 343 390-071	BL	Indicator	24 amber	2,0 W	approx. 0,22 A	2,9 W	approx. 0,09 A
2SB 343 390-091	SB	Taillight, stoplight	12 red (reduced power)	0,2 W	approx. 0,02 A	0,6 W	approx. 0,02 A
			12 red	1,6 W	approx. 0,18 A	2,5 W	approx. 0,08 A

Application example



Range overview

Product picture	Drawing	Part number	Specification	Type approval	PU
		2BA 343 390-071	Indicator for mounting to vehicle left or right, vertical or horizontal, 100 mm cable with open end. Break out water drain opening!	ECE	1
		2SB 343 390-091	Taillight, stoplight for mounting to vehicle left or right, vertical or horizontal, 100 mm cable with open end. Break out water drain opening!	ECE	1
		2SD 343 390-011	Taillight, stoplight and indicator for mounting on the left or right of the vehicle, vertical or horizontal, 100 mm cable with open end. Break out water drain opening!	ECE	1
		2SD 343 390-401 2SD 343 390-407	Taillight, stoplight and indicator for flush mounting on the left or right of the vehicle with housing pot, integrated 4-pole Deutsch plug. Water drain is already opened!	ECE	1 24

The individual functions of the lamp may only be operated with an on-board fuse of max. 3 A.

Product supplements

Reverse light and rear fog light in bulb-based technology:



2NE 343 130-031



2ZR 343 130-041