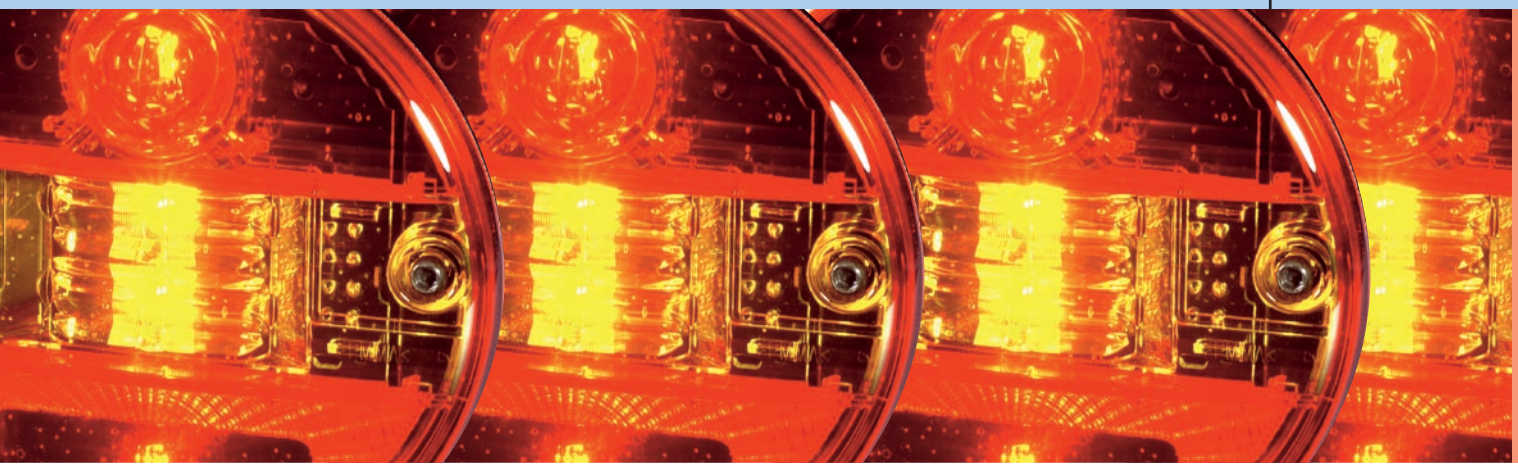
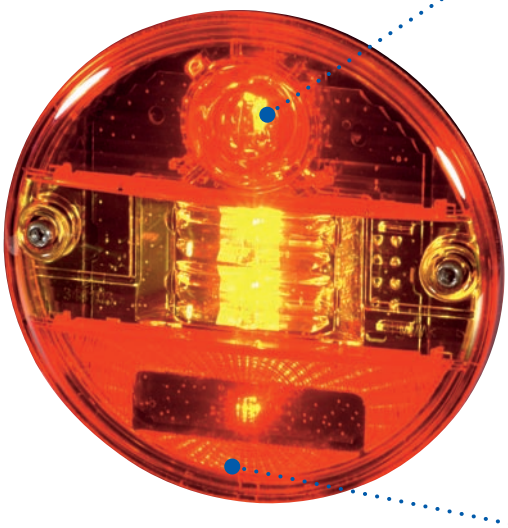
Multi-function LED combination rearlight

Brief information



- *Sturdy tail, stop, indicator light in LED*
- *Multi-voltage from 9 – 32 V*
- *Long service life*

Product features



4 High-Power-LEDs with precision lenses
Optimum light output thanks to the combination of high-power LED and precision lenses. One LED each for the taillight and stop light and 2 LEDs for the indicator light.

Long service life and low maintenance costs
The light achieves a long service life (30,000 hours) thanks to the innovative LED technology. Low energy consumption and reduced maintenance costs are the desired result.

High vibration resistance
Tested to Hella Norm 67001 Class 10 allows use even in the heavy construction machinery sector.

Approval for double installation
Even more safety! – The light is also approved for double installation per side.

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

LED flush-fitting variant, low-profile design (24 mm)
Makes simple conversion for the „1685“ bulb series possible thanks to identical housing dimensions.

LED lighting technology

As a leader in innovation in the field of automotive original equipment, Hella sets standards via LED lighting technology.

An overview of the advantages of modern LED lighting technology:

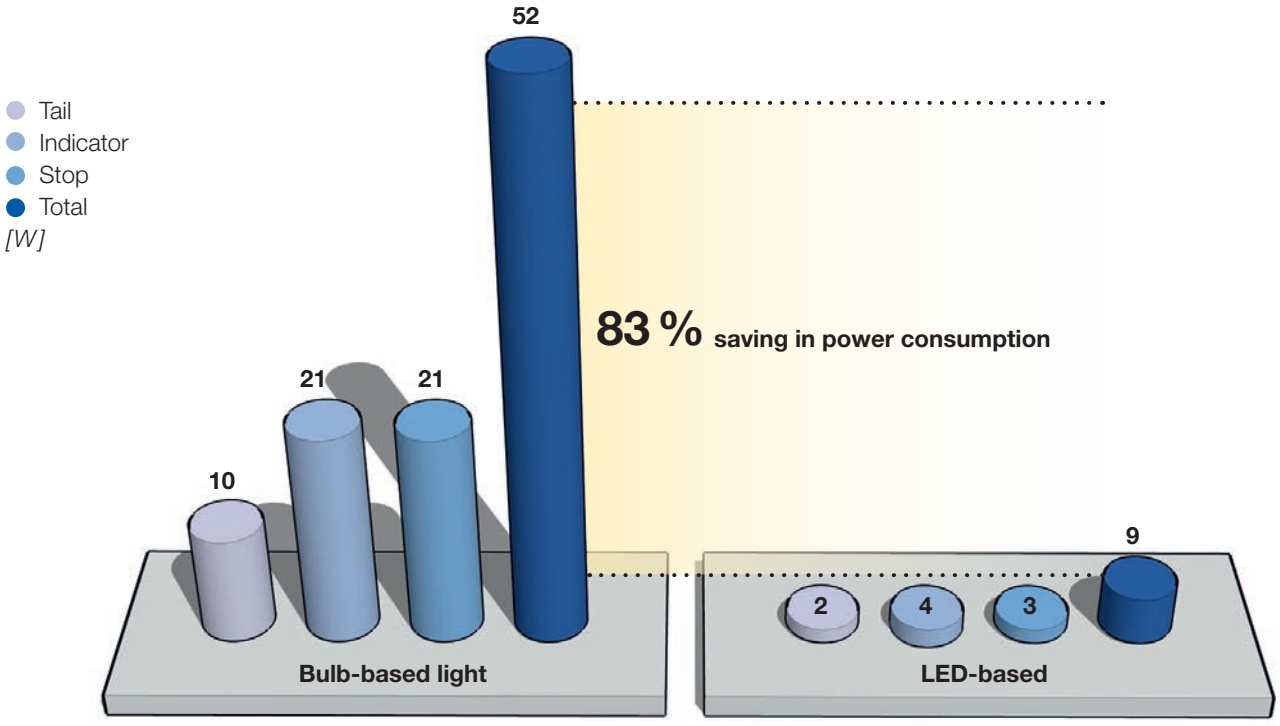
Extremely low energy consumption
Thanks to the combination of efficient LEDs and precision lenses, the Hella combination rearlights achieve the legally prescribed light distribution – despite using 83 % less power than bulb versions!

No light source replacement, no maintenance and extremely long service life thanks to optimum thermal management
To extend the light's service life, both the indicator and the tail/stop light function are equipped on temperature-optimised PCBs. This avoids the LEDs overheating at extremely high temperatures. This thermal management leads to maximisation of the service life – even under adverse conditions of use. 30,000 hours and more can be achieved depending on the environmental conditions.

LED Multivolt™ technology
Multivolt™-circuits keep the light output constant over a voltage range of 9 to 32 Volts. This makes it possible to use the same Hella combination rearlight for 12 and 24 Volt applications. Multivolt™ also compensates for voltage fluctuations which arise through the use of long cables, plug-connections and within the vehicle electric system. Furthermore, 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 light



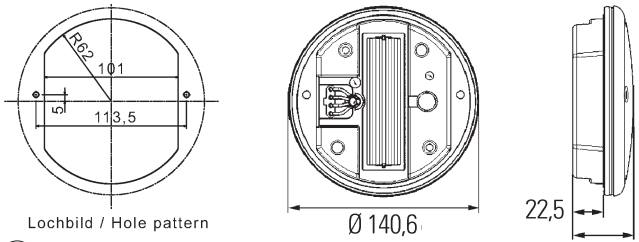
Technical details

Technical data	
Type approval	ECE with D-approval
Functions	Tail, stop and indicator light 1 LED each for tail, stop light, 2 LEDs for indicator
Failure check	integrated for indicator
Multi-voltage	9 – 32 V DC
Current consumption	Taillight: 2 W Stop light: 3 W Indicator: 4 W
Specification	Hella Norm 67001 Class 10 Construction machinery
Approval	GGVS/ADR
Dimensions (Ø x l)	141 x 45 (84) mm
Operating temperature	-40 °C to +60 °C
Protective rating	IP 6K9K
EMC approval	e17 030203
Overvoltage protection	100 V
Service life	30.000 h*

(* depending on operating temperature)

Technical drawing

Low-profile design as flush-mounted variant.
Can also be used in the housing of the bulb-based variants 001 685-21, -23 and -30.



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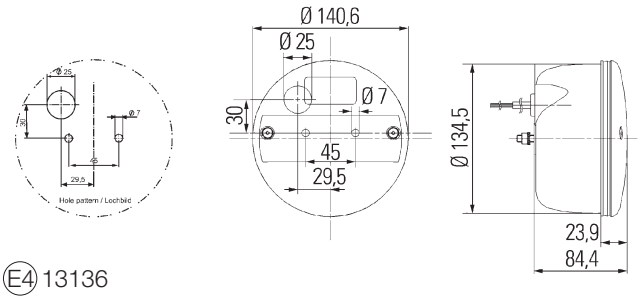
As housing variant.
Dimensions as bulb-based variant.



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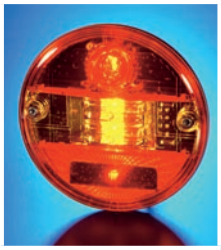
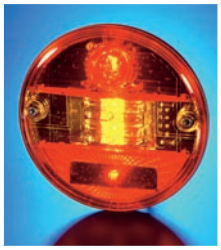
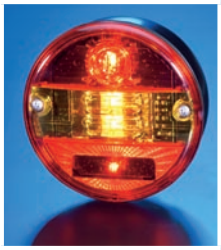
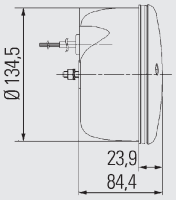
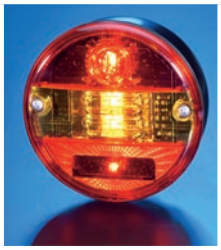
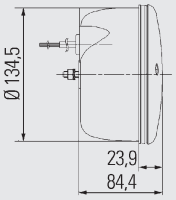
Application examples

Range overview

Product picture	Drawing	Part Number	Specification	Type approval	Packaging unit
		2SD 344 100-001	Tail-stop-indicator light for horizontal flush-fitting, with 500 mm cable with open end Multi-voltage 9 – 32 V Conversion of the bulb-based series 2SD 001 685-... (identical housing dimensions)	ECE	1
		2SD 344 100-007	Tail-stop-indicator light for horizontal flush-fitting, with 500 mm cable with open end Multi-voltage 9 – 32 V Conversion of the bulb-based series 2SD 001 685-... (identical housing dimensions)	ECE	40
		2SD 344 100-101	Tail-stop-indicator light for horizontal surface-mounting with housing and cable grommet, with 500 mm cable with open end Multi-voltage 9 – 32 V	ECE	1
		2SD 344 100-107	Tail-stop-indicator light for horizontal surface-mounting with housing and cable grommet, with 500 mm cable with open end Multi-voltage 9 – 32 V	ECE	20

Product supplements

Reverse and rear fog light:

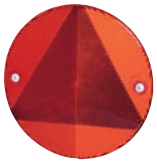
Bulb-based lights:

white	**2ZR 001 423-001**
red	**2NE 001 423-011**

LED:

white, surface-mounting left	**2ZR 964 169-351**
white, surface-mounting right	**2ZR 964 169-361**
red	**2NE 964 169-341**

Reflector:



8RA 343 220-017

Accessories:

Chrome ring with angle bracket for flush-mounting for –101/107
9XD 997 909-801

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