

## Rear light

Rear lights provide greater safety in road traffic, particularly in the dark. They include tail lights, brake lights, reversing lights, rear fog lights and turn signals.

### FUNCTION

Rear lights are part of the vehicle lighting system. They include the following:



- Tail lights
- Brake lights
- Turn signals
- Reversing lights
- Rear fog lights

The tail lights, brake lights and turn signals are used most frequently. The purpose of reversing lights is to indicate that a vehicle is moving backwards and rear fog lights provide a safety function when visibility is down to below 50 metres.

### LED lighting technology

Tail lights and brake lights benefit from the advantages of modern LED (Light Emitting Diode) technology. These include rapid switch-on for added safety: LEDs achieve full brightness as soon as they are switched on. This makes it possible to recognise braking signals more quickly and so react sooner to potentially hazardous situations. By comparison: A bulb takes a fraction of a second longer to

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achieve full brightness.

## **Brand-specific lighting systems**

Rear lights help to identify the typical brand image of a vehicle. The versatile potential offered by LEDs in combination with lens systems is being increasingly exploited for this purpose. The aim is to underscore the vehicle design with attractive styling. Engineers and designers work closely together at the early development stage to create such lighting systems.

Technical progress makes it possible to turn design ideas into reality in the form of full-area illumination, an individual signature and greater depth.

## **SAFETY**

Rear lights provide greater safety in road traffic. Legal regulations such as ECE or FMVSS 108 set down the relevant safety requirements and define a standard signalling pattern.

## **PROTECTION OF THE ENVIRONMENT**

Certain rear lights use just LEDs as a light source. Having a long service life and not requiring any maintenance, LED lighting systems make a positive contribution to environmental protection.

## **VALUE RETENTION**

Thanks to their long life, outstanding reliability, compactness and low energy consumption, LEDs are increasingly taking over from conventional bulbs. Being virtually insusceptible to wear and requiring no maintenance, LED lights are a significant factor in terms of vehicle value retention.

## **Images**





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Bosch

Source: <https://www.my-cardictionary.com/dictionary/lighting/rear-light>