



Reference Number made easy

Making sure your LEDriving®
lights are legal on public roads

OSRAM LEDriving® driving lights are a striking addition to your vehicle but if you intend to use them on public roads, there are specific ECE regulations to follow regarding how and where to fit them, and how many lights you're allowed to fit.

Light is OSRAM

OSRAM

Check the regulations before you mount your LEDriving® lights

When fitting additional lights, you must comply with the three ECE regulations (R112, R7 and R23) to make sure your vehicle looks good in the eyes of the law. Start by choosing ECE 'Approved Headlights' (all OSRAM LEDriving® driving lights are approved for on-road use) and follow the mounting instructions correctly.

What do Reference Numbers mean?

Every ECE approved headlight, including the one built in your car, has a Reference Number. This indicates the high beam headlights intensity. The higher the Reference Number, the brighter the headlight.

Where to find Reference Numbers

Lights that meet the regulations carry an 'E-mark' – a moulded or printed 'encircled E' on the lens or on the product housing. You'll find the Reference Number to the right or left of this 'E-mark'. Now take the Reference Number of each of the standard equipped high beams of your car. Add the Reference Number of your additional LEDriving® driving lights to your calculation and make sure the sum is not exceeding 100.

01 HRC PL **12.5** 02A-OORL **E 9** M410



In this example, the E-mark is recognizable by an encircled E, whilst the Reference Number is 12.5. Here, the product's Reference Number refers to a single high beam light. So the vehicle will have a total of 25 (12,5 plus 12,5) as its existing total Reference Number.

THE GOLDEN RULE: **STAY BELOW 100**



Under ECE 112 regulations the total value of your Reference Numbers must not exceed 100.

This includes existing high beam lights and any additional mounted lights.

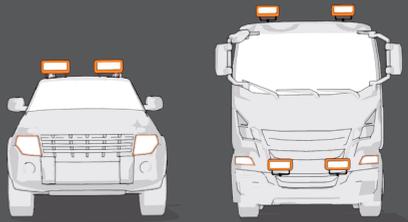
* Except for single mounting products. Please check product packaging and product description.

** For mounting regulations please refer to your OSRAM product packaging and/or to the OSRAM website: www.osram.com/ledriving-spotlights.

1**Regulation ECE R112**

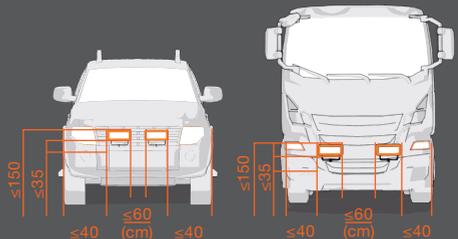
This relates to high and low beam intensity

- ✓ Always install in pairs*
- ✓ Maximum 4 high beam lights for cars (incl. existing lights) operating in parallel
- ✓ Maximum 6 high beam lights for trucks (incl. existing lights) operating in parallel

**2****Regulation ECE R7**

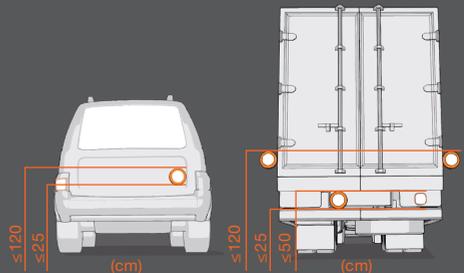
This relates to the positioning lights of your car

- ✓ Maximum 4 position lights for cars and trucks (incl. existing lights) operating in parallel
- ✓ Must be directly wired
- ✓ Mounted in pairs
- ✓ Must adhere to width and height regulations**

**3****Regulation ECE R23**

This relates to reversing lights

- ✓ Maximum 2 rear light for cars (gross weight under 3.5 tons), incl. existing lights
- ✓ Maximum 2 rear + 2 side lights for trucks (gross weight over 3.5 tons), incl. existing lights
- ✓ Must adhere to width and height regulations**





Keeping the light right

In short, the rules are relatively simple:

- ✓ Check the Reference Number on each of your lights
- ✓ Make sure the total of your Reference Numbers does not exceed 100
- ✓ Do not exceed the number of lights permitted for your vehicle
- ✓ Follow the mounting instructions precisely and carefully

Watch our
Instruction Video



OSRAM