

# NIGHT BREAKER LED SMART ECE H11



## ECE Street-Legal<sup>1)</sup>

The NIGHT BREAKER LED family - OSRAM's first ECE street-legal LED retrofit lamps



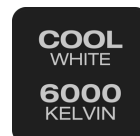
## Approved for all 12V vehicle models<sup>1)</sup>

Approved for all 12V vehicle models, in all ECE member states, for all light functions as a replacement for all H11 lamps and H11 bases



## Up to 6 times longer lifetime<sup>3)</sup>

Vibration resistant, environmentally friendly, and cost-efficient



## Cool white & 6000K

Modern and intense white light with a color temperature similar to daylight



A revolutionary development in the retrofitting lamp sector. The new ECE street legal NIGHT BREAKER LED SMART ECE H11. OSRAM's first ECE homologated LED retrofit lamp.

OSRAM's new NIGHT BREAKER LED SMART ECE H11 is fully homologated according to ECE R37 and consequently approved for all 12V vehicles in all ECE member states for all light functions as suitable replacement for all H11 lamps and H11 bases.

The lamp's ECE R37 homologation eliminates the need for matching headlamp approval numbers, carrying official approval documents, or applying stickers.

They offer a modern and bright white light with a color temperature of up to 6000 Kelvin and impress with its extra brightness<sup>2)</sup>, while the glare of other road users falls below the permissible maximum values by up to 50%<sup>2)</sup>.

In comparison to standard lamps, such as halogen lamps, these LED retrofit lamps consume up to 60% less energy and convince thanks to LED technology and the specially developed vibration-resistant design, with up to 6 times longer life time<sup>2)</sup>. They have been tested in our DIN-certified environmental simulation laboratory for extreme external influences in terms of the ingress of water and dust and validated with IP protection class IP55.

You can now replace your conventional vehicle lamps with OSRAM's revolutionary NIGHT BREAKER LED retrofit lamps and experience trend-setting brightness for the first time with ECE-road approval.

Additionally, OSRAM offers a dedicated guarantee<sup>3)</sup> on all NIGHT BREAKER LED retrofit lamps.

Product family datasheet

Technical data

| Product description             | Environmental & Regulatory Information                                |                            |                        |                                                                                                    |
|---------------------------------|-----------------------------------------------------------------------|----------------------------|------------------------|----------------------------------------------------------------------------------------------------|
|                                 | Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                            |                        |                                                                                                    |
|                                 | Primary article identifier                                            | Candidate list substance 1 | CAS No. of substance 1 | Safe use instruction                                                                               |
| NIGHT BREAKER SMART H11 ECE LED | 4062172418331                                                         | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. |

| Product description             | Declaration no. in SCIP database     |
|---------------------------------|--------------------------------------|
| NIGHT BREAKER SMART H11 ECE LED | b33327f1-2527-400e-ae81-f7f71177fc2c |

Download Data

| File                                                                              |                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|  | User instruction<br>NIGHT BREAKER LED SMART ECE                                               |
|  | User instruction<br>GPRS_Safety symbols instructions                                          |
|  | Brochures<br>NB LED SMART ECE H11 Specification list (HU)                                     |
|  | Brochures<br>Night Breaker LED SMART ECE H11 Specification list Installation instruction (EN) |

Safety advice

Application advice:

For more detailed application information and graphics please see the product datasheet, user manual and specification list

Legal advice

- 1) Homologated in accordance with the applicable UN ECE R37 regulations
- 2) Compared to the minimum requirements of ECE R112, while the glare is below the maximum permissible values by up to 50%
- 3) In comparison to traditional Halogen lamps
- 4) For precise conditions please refer to: [www.osram.com/am-guarantee](http://www.osram.com/am-guarantee)

Application advice

For more detailed application information and graphics please see product datasheet.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.