

# NIGHT BREAKER LED SMART HB3

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

The NIGHT BREAKER LED family - OSRAM's first street-legal<sup>1)</sup> LED retrofit lamps



### Extra Brightness<sup>2)</sup> & 6000K

See and be seen with OSRAM. Cool white color temperature similar to daylight. For more safety on the road, especially when driving at night



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

Vibration resistant, environmentally friendly, and cost-efficient



### 5 Year OSRAM Guarantee<sup>4)</sup>

Systematic quality assurance measures underpin the premium workmanship and functionality of our products. Innovative technology and excellent quality really pay dividends for our customers



### NIGHT BREAKER LED SMART HB3

With the street-legal<sup>1)</sup> NIGHT BREAKER LED SMART, its innovative compact design, sophisticated construction and exceptional brightness, it is now possible to switch from traditional halogen lamps to advanced OSRAM LED technology in even more vehicles.

Upgrade the function of your high- and low beam lights of your vehicle to state-of-the-art LED technology now. These LED replacement lamps are suitable as a replacement for conventional lamps and bases<sup>1)</sup>. They offer a modern and bright white light with a color temperature of up to 6000 Kelvin and impress with 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 the LED technology and the specially developed vibration-resistant design, with up to 6 times longer life time<sup>3)</sup>. You can now replace your conventional vehicle lamps with OSRAM's revolutionary NIGHT BREAKER LED retrofit lamps and experience trend-setting brightness with road approval<sup>1)</sup>. Additionally, OSRAM offers a guarantee on all NIGHT BREAKER LED retrofit lamps<sup>2)</sup>.

Technical data

Product information

|                                             |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application (Category and Product specific) | High and low beam                                                                                                                                                                                                                                                                                                        |
| Product legal advice 1                      | 1) Approved LED light source - only applies to the respective countries in which there is approval or to which an equivalent approval applies and the vehicle models and light functions currently listed in the compatibility list. For more details see <a href="http://www.osram.com/nb-led">www.osram.com/nb-led</a> |
| Product legal advice 2                      | 2) Compared to the minimum requirements of ECE R112                                                                                                                                                                                                                                                                      |
| Product legal advice 3                      | 3) In comparison to traditional Halogen lamps                                                                                                                                                                                                                                                                            |
| Product legal advice 4                      | 4) For precise conditions please refer to: <a href="http://www.osram.com/am-guarantee">www.osram.com/am-guarantee</a>                                                                                                                                                                                                    |

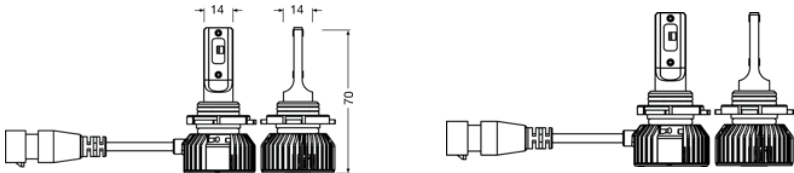
Electrical Data

|                       |        |
|-----------------------|--------|
| Power input           | 21 W   |
| Test voltage          | 13.2 V |
| Power input tolerance | ±20 %  |
| Nominal wattage       | 21 W   |
| Nominal voltage       | 12 V   |

Photometric Data

|                         |            |
|-------------------------|------------|
| Color temperature       | 6000 K     |
| Nominal luminous flux   | 1800 lm    |
| Luminous flux tolerance | ±15 %      |
| Light color LED         | Cool white |

Physical Attributes & Dimensions



|        |         |
|--------|---------|
| Length | 70.0 mm |
|--------|---------|

Product datasheet

Lifetime Data

|             |         |
|-------------|---------|
| Lifespan Tc | 3000 hr |
| Lifespan B3 | 1500 hr |

Capabilities

|            |     |
|------------|-----|
| Technology | LED |
|------------|-----|

Certificates & standards

|           |     |
|-----------|-----|
| Standards | ABG |
|-----------|-----|

Environmental & Regulatory Information

|                                                                       |               |
|-----------------------------------------------------------------------|---------------|
| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |               |
| Primary article identifier                                            | 4062172424837 |
| Declaration no. in SCIP database                                      | In work       |

Logistical Data

| Product code  | Product description        | Packaging unit<br>(Pieces/Unit) | Dimensions (length<br>x width x height) | Volume               | Gross weight |
|---------------|----------------------------|---------------------------------|-----------------------------------------|----------------------|--------------|
| 4062172424837 | NIGHT BREAKER<br>SMART HB3 | Hanging Folding Box<br>2        | 136 mm x 56 mm x<br>162 mm              | 1.23 dm <sup>3</sup> | 225.00 g     |
| 4062172424844 | NIGHT BREAKER<br>SMART HB3 | Shipping carton box<br>4        | 149 mm x 125 mm x<br>180 mm             | 3.35 dm <sup>3</sup> | 533.00 g     |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Download Data

| File                                                                                |                                                      |
|-------------------------------------------------------------------------------------|------------------------------------------------------|
|  | User instruction<br>NIGHT BREAKER LED                |
|  | User instruction<br>GPRS_Safety symbols instructions |

**Safety advice**

Application advice:

For more detailed application information and graphics please see product data sheet and user manual

### Legal advice

1) Approved LED light source - only applies to the respective countries in which there is approval or to which an equivalent approval applies and the vehicle models and light functions currently listed in the compatibility list. For more details see: [www.osram.com/nb-led](http://www.osram.com/nb-led)

2) Compared to the minimum requirements of ECE R112

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.

The OSRAM logo is displayed in a bold, orange, sans-serif font.