

## NIGHT BREAKER LED SMART H4 PRO

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### Street-Legal1)

The NIGHT BREAKER LED family - OSRAM's first street-legal1) LED retrofit lamps.



### Up to 330% more brightness2) & 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 lifetime3)

Vibration resistant, environmentally friendly, and cost-efficient



### 5 Year OSRAM Guarantee4)

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



Exceptionally bright, innovatively compact, widely applicable, broadly compatible, particularly durable and, of course, street-legal<sup>1)</sup> That's the new NIGHT BREAKER LED SMART from OSRAM.

Experience the next milestone from OSRAM and discover completely new terrain in the world of street-legal<sup>1)</sup> LED retrofit lamps with the NIGHT BREAKER LED SMART from OSRAM. The new highlight from OSRAM for automotive and vehicle enthusiasts and of course for everyone else. This new highlight from OSRAM raises vision & visibility, durability & compatibility, reliability & safety to the next level. OSRAM's street-legal<sup>1)</sup> LED lamps set new standards in terms of innovation, precision, versatility and functionality. They lead the way in terms of brightness, lifetime, vehicle compatibility, design and much more. 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<sup>5)</sup>. With the street-legal<sup>1)</sup> NIGHT BREAKER LED SMART you can now upgrade the function of your high- and low beam lights of your vehicle to state-of-the-art LED technology. These LED replacement lamps are suitable as a replacement for conventional lamps and bases. They offer a modern and bright white light with a color temperature of up to 6000 Kelvin and impress with up to 330% more 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 dedicated guarantee on all NIGHT BREAKER LED retrofit lamps<sup>2)</sup>

# Product family datasheet

## Technical data

| Product description            | Product information  |  |   |   |
|--------------------------------|--|--|---|---|
|                                | Product legal advice 1   | Product legal advice 2   | Product legal advice 3                        | Product legal advice 4  |
| NIGHT BREAKER SMART H4 LED PRO | 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> | 2) In comparison 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: <a href="http://www.osram.com/am-guarantee">www.osram.com/am-guarantee</a> |

| Product description            | Application (Category and Product specific) | General Product Information | Electrical Data |             |              |
|--------------------------------|---|-----------------------------|-----------------|-------------|--------------|
|                                |   | Global order reference      | Nominal voltage | Power input | Test voltage |
| NIGHT BREAKER SMART H4 LED PRO | High and low beam                           | 64193DWNBSM 20/             | 12.0 V          | 21.0 / 20 W | 13.2 V       |

| Product description            | Power input tolerance | Photometric Data |                   |                       |                         |
|--------------------------------|-----------------------|------------------|-------------------|-----------------------|-------------------------|
|                                |                       | Light color LED  | Color temperature | Nominal luminous flux | Luminous flux tolerance |
| NIGHT BREAKER SMART H4 LED PRO | ±15 %                 | Cool white       | 6000 K            | 1650/1000 lm          | ±15 %                   |

| Product description            | Physical Attributes & Dimensions |         | Lifetime Data |             | Capabilities |
|--------------------------------|----------------------------------|---------|---------------|-------------|--------------|
|                                | Product weight                   | Length  | Lifespan Tc   | Lifespan B3 | Technology   |
| NIGHT BREAKER SMART H4 LED PRO | 73.00 g                          | 84.0 mm | 3000 hr       | 1500 hr     | LED          |

| Product description            | Certificates & standards | Environmental & Regulatory Information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                            |                                  |
|--------------------------------|--------------------------|--|----------------------------|----------------------------------|
|                                | Standards                | Date of declaration  | Primary article identifier | Declaration no. in SCIP database |
| NIGHT BREAKER SMART H4 LED PRO | ABG                      | 19-10-2024   | 4062172398152              | In work                          |

## Product family datasheet

### Safety advice

Application advice: For more detailed application information and graphics please see product datasheet 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-led2](http://www.osram.com/nb-led2) 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-guarantee5](http://www.osram.com/am-guarantee5) 5) In comparison to the previous versions of NIGHT BREAKER LEDs

### 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.

