

# NIGHT BREAKER LED SMART H4

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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.

## Product family datasheet



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	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)	Global order reference	Electrical Data		
			Nominal voltage	Power input tolerance	Test voltage
NIGHT BREAKER SMART H4 LED	High and low beam	64193DWNBSM-2HB	12.0 V	±15 %	13.2 V

Product description	Power input	Photometric Data			
		Light color LED	Luminous flux tolerance	Nominal luminous flux	Color temperature
NIGHT BREAKER SMART H4 LED	21.0 / 20 W	Cool white	±15 %	1650/1000 lm	6000 K

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

Product description	Certificates & standards	Environmental & Regulatory Information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
	Standards	Primary article identifier	Declaration no. in SCIP database
NIGHT BREAKER SMART H4 LED	ABG	4062172398138   4062172398176	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)) Compared to the minimum requirements of ECE R112, while the glare is below the maximum permissible values by up to 50%<sup>3</sup>) In comparison to traditional Halogen lamps<sup>4</sup>) For precise conditions please refer to: [www.osram.com/am-guarantee5](http://www.osram.com/am-guarantee5)) 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.

