

# NIGHT BREAKER LED START H4



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

The NIGHT BREAKER LED family - OSRAMs first street-legal<sup>1)</sup> LED retrofit lamps.



**Up to 230% more 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 and in adverse weather conditions.



**Up to 5 times longer lifetime<sup>3)</sup>**

Vibration resistant, environmentally friendly, and cost-efficient



**3 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



Start into the world of street-legal<sup>1)</sup> LED replacement lamps with OSRAMs NIGHT BREAKER LED START.

With a revised basic design, basic features and basic benefits, the NIGHT BREAKER LED START focuses on the fundamental factors of street-legal<sup>1)</sup> LED replacement lamps. More and better vision and visibility<sup>3)</sup> and therefore more driving comfort, environmental friendliness and cost efficiency thanks to less replacement cycles and a more modern look.

Affordable products for entry into the street-legal<sup>1)</sup> LEDr world without having to compromise on the key advantages.

With OSRAMs street-legal<sup>1)</sup> retrofit lamps, you can benefit from highly energy-efficient, bright and modern LED light. You can now upgrade the function of your high- and low beam lights of the 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 230% 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 5 times longer life time<sup>3)</sup>. You can now replace your 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>4)</sup>

# Product family datasheet

## Technical data

Product description	Product information			
	Product legal advice 4	Product legal advice 3	Product legal advice 2	Product legal advice 1
NIGHT BREAKER START H4 LED	4) For precise conditions please refer to: <a href="http://www.osram.com/am-guarantee">www.osram.com/am-guarantee</a>	3) In comparison to traditional Halogen lamps	2) Compared to the minimum requirements of ECE R112, while the glare is below the maximum permissible values by up to 60%	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 description	Application (Category and Product specific)	General Product Information	Electrical Data	Photometric Data	
		Global order reference	Nominal voltage	Light color LED	Color temperature
NIGHT BREAKER START H4 LED	High and low beam	64193DWNBST-2HB	12.0 V	Cool white	6000 K

Product description	Physical Attributes & Dimensions		Lifetime Data	Capabilities	
	Length	Product weight	Lifespan Tc	Lifespan B3	Technology
NIGHT BREAKER START H4 LED	87.4 mm	73.00 g	2500 hr	1500 hr	LED



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 START H4 LED	4062172411042	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 START H4 LED	fa88b296-a3fc-463e-bca0-15ad2efb7de9

## Product family datasheet

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### Download Data

File	
	User instruction NIGHT BREAKER LED H4 64193DWNBST
	User instruction GPRS_Safety symbols instructions

#### 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 60%3) In comparison to traditional Halogen lamps4) 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 and user manual.

#### 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.