



## BRIEF INFORMATION

### Bi-LED low beam and high beam headlamp SlimLine

- › 1st Gen. of rectangular Bi-LED module from HELLA with sophisticated lighting / electronics
- › Outstanding slim design and technological freedom thanks to modular system
- › For diverse applications and the highest demands

## PRODUCT FEATURES

The SlimLine Bi-LED headlamp combines low and high beam in one module. It delivers excellent light performance and is the first module in the HELLA portfolio in an angular design. The SlimLine module is installed horizontally.

Thanks to the solid housing and robust design, the SlimLine can be used in harsh environments and for severe applications. In addition to its high vibration resistance, which makes this product ideal for use in construction machinery, the Bi-LED module with IP 6K9K protection class is particularly dustproof and it can withstand high pressure cleaning.

Due to the built-in polarity reversal protection, the lamp is not damaged even if the connection is accidentally reversed. In addition, the module's thermal management maximises its lifetime. Full functionality is guaranteed even at temperatures as low as -40 °C and as high as +60 °C.

Thanks to the high colour temperature of 5,500 Kelvin, the illumination appears similar to daylight, and the driver sees much better and does not tire as quickly. This makes driving safer and more comfortable.



## APPLICATION EXAMPLES

The Bi-LED low beam and high beam headlamp SlimLine can be used in agricultural and construction machinery, trucks, buses, motorhomes, in the powersports sector as well as in cars and sports cars.

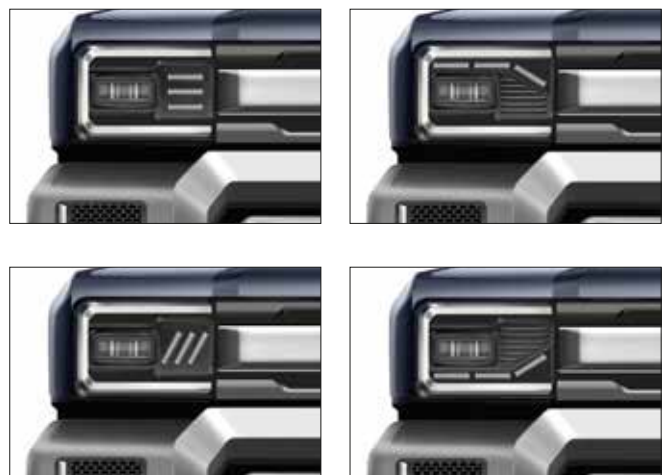
### Individual vehicle character

The bezel can be implemented in a customer-specific way in terms of colour and thus enables an individual appearance.



### Perfect combination - Impressive style!

Together with our LEDayFlex III LED combination lamp, the new rectangular module offers attractive styling options:

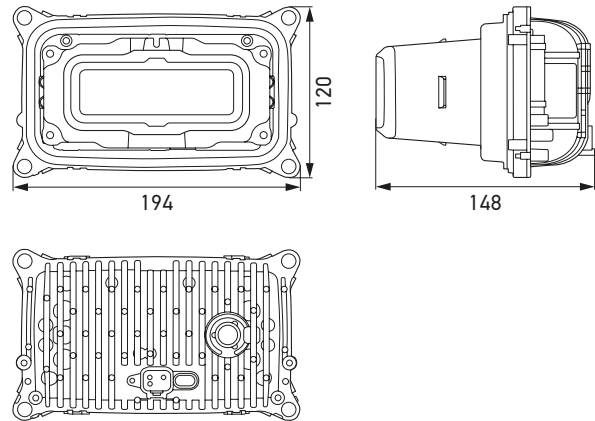


# TECHNICAL DETAILS

## Technical data

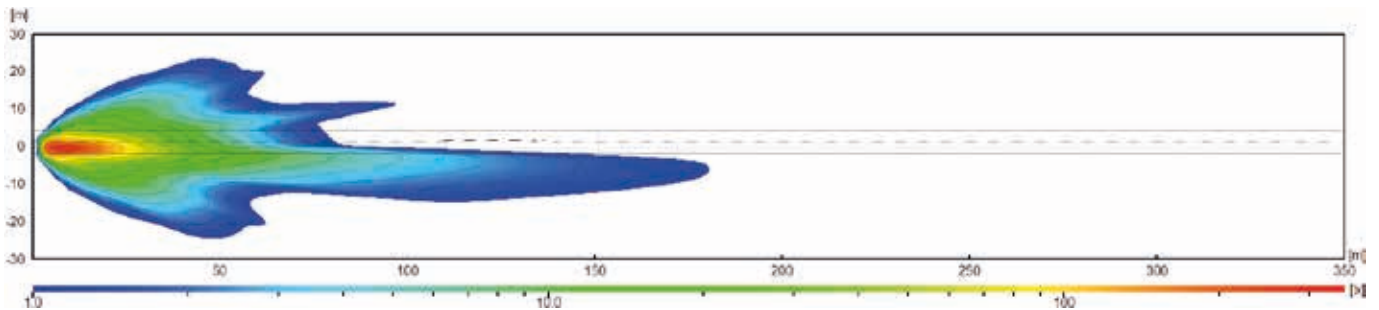
Operating voltage range	Multi-voltage (9 – 32 V)
Rated voltage	12 V and 24 V
Current consumption	Low beam: 1.6 A (12 V) High beam: 1.24 A (12 V) Low beam and high beam: 2.84 A (12 V)
Power consumption	Low beam: 19.2 W High beam: 14.9 W Low beam and high beam: 34.1 W
Light function	Low beam, high beam
Light source	LED
Material	ALGD (Aluminum die casting cooling element / 2K Lens (Black / Transparent))
Weight	1,037 g
Temperature range	-40 °C to +60 °C
Protection class	IP6Kx, IPx9K, IPx4K
Approved	ECE-R10, ECE-R10 06, ECE ES / LES: R149 Class B, FMVSS 108
Compliant	CISPR 25 Class 5
Mounting	See mounting instruction
Connection	4-pin DEUTSCH DT connector (3 Pins assembled)

## Dimensional sketch

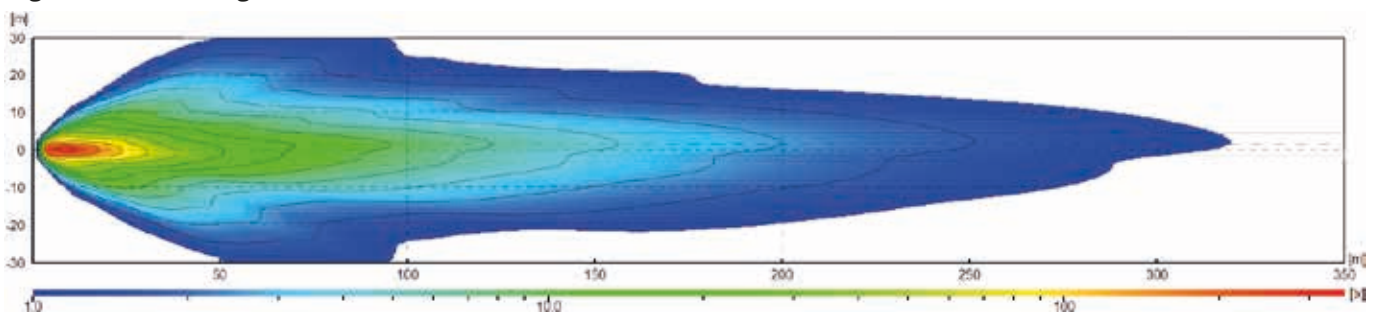


# LIGHT DISTRIBUTION


## Low beam



## High Beam (including low beam)















# PROGRAM OVERVIEW

Product picture	Approval	Variant	Type of mounting	Part number	VPE*
	ECE	Right-hand traffic	flush mounting	<b>1AL 016 330-001</b>	1
		Left-hand traffic	flush mounting	<b>1LL 016 330-011</b>	1
	SAE - FMVSS 108	-	flush mounting	<b>1AL 016 330-021</b>	1

\* Packaging unit

## ACCESSORIES

Product picture	Description	Part number
	Carrier frame	<b>9AW 258 522-101</b>
	Mounting kit group (4 pieces)	<b>9NS 258 539-001</b>
	Leveling accessory group	<b>9NS 258 539-011</b>
	Mounting set levelling motor (includes bracket for left-hand-mounting)	<b>6NM 007 282-221</b>
	Leveling motor 24 V	<b>6NM 008 299-501</b>
	Bracket for left-hand mounting	<b>8HG 138 620-007</b>
	Bracket for right-hand mounting	<b>8HG 138 619-007</b>
	Connector housing, 4-pin	<b>8JA 201 022-042</b>
	Locking / wedge lock, 4-pin	<b>9NB 201 024-042</b>
	Contact sleeve (0.5 – 1.5 mm²), 4-pin	<b>8KW 201 025-112</b>
	Dummy plug	<b>9NB 201 026-012</b>
	Set packaging for 4-pin	<b>8JA 201 022-821</b>

# TYPE OF MOUNTING AND REQUIRED ACCESSORIES PER PRODUCT

Without mounting frame	With mounting frame	Leveling 12 V right or left-hand mounting	Leveling 24 V right or left-hand mounting
Heavy duty: 4 x fixing screws	Heavy duty: 4 x fixing screws 1 x carrier frame	2 x fixing screws 1 x carrier frame	2 x fixing screws 1 x carrier frame
Average requirements: 3 x fixing screws	Average requirements: 3 x fixing screws 1 x carrier frame	1 x leveling accessory group 1 x leveling motor 12 V 1 x bracket for left-hand or right-hand mounting	1 x leveling accessory group 1 x leveling motor 24 V 1 x bracket for left-hand or right-hand mounting



Four fixing screws are required for heavy duty applications like agricultural and construction machinery.

For average requirements, only two fixing screws and a leveling-component are needed.