



## BRIEF INFORMATION

### LED licence plate light

- › Flush-mounting or surface-mounting variants
- › Long service-life with low current consumption
- › High dust and water tightness

## PRODUCT FEATURES

### Product variants

We cover the majority of licence plates used in the ECE approval area. The only exception so far is the green 165-sized plate.

### Surface-mounting variant – only one light per licence plate

The classic surface-mounting variant for trailer applications is achieved by using a housing. Thanks to the optimum light output, only one light mounted at the side is required per licence plate (520 mm).

### Flush-mounting variants

In view of the attractive flat design, straightforward flush mounting above the licence plate is always possible. 2 LED licence plate lights are required for the homogeneous illumination of the licence plate

### Power LEDs with long service life

Optimum light output on account of the combination of 4 Power LEDs and precision lenses. Service life greater than 30,000 hours. Replacement is not necessary during vehicle service life.

### Extremely low energy consumption

With regard to the use of Power LEDs, less energy is required for better light output.

### High dust and water resistance

The high protection class IP 6K9K is guaranteed thanks to the high quality casting technology employed.

### Replacement possibility

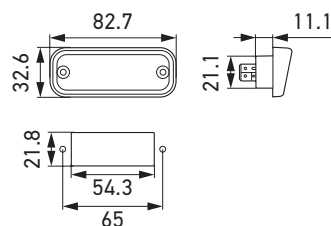
The tried-and-trusted FORVIA HELLA bulb-based licence plate light 2KA 005 049 can be replaced by the LED flush-mounting variant.

# TECHNICAL DETAILS

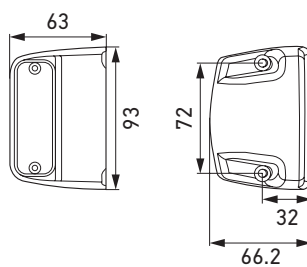
## Technical data

Operating voltage range	Single-voltage (9 – 16 V or 16 – 32 V)
Rated voltage	12 V or 24 V
Current consumption	0.08 A (12 V), 0.04 A (24 V)
Power consumption	1 W
Light function	Licence plate light
Light source	4 LEDs
Temperature range	-40 °C to +50 °C
Protection class	IP 6K9K
Approved	ECE-R4, ECE-R10, ADR / GGVSEB
Specification	FORVIA HELLA standard class 7.2 Agro plus
Connection	6.3 mm flat connector, independent of polarity (+ and - can be interchanged)

## Dimensional sketch



Flush-mounting



Surface-mounting

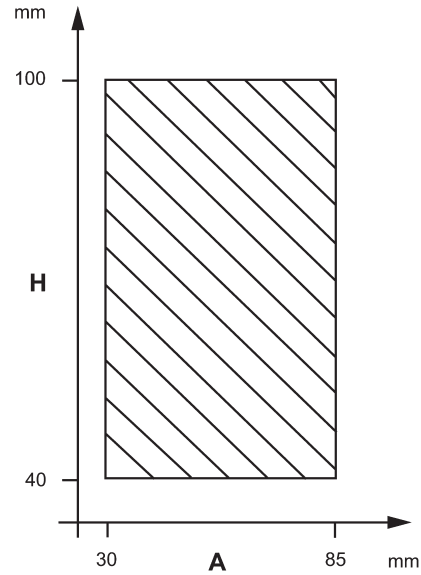
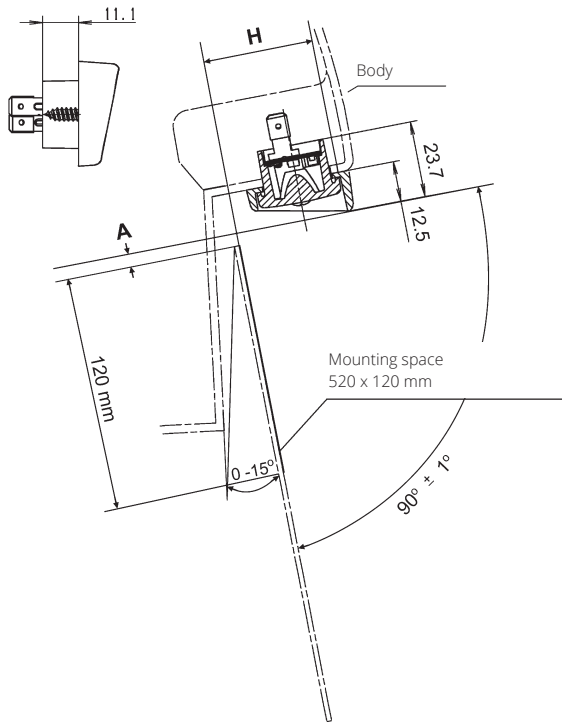
# APPLICATION EXAMPLE



# TECHNICAL DETAILS

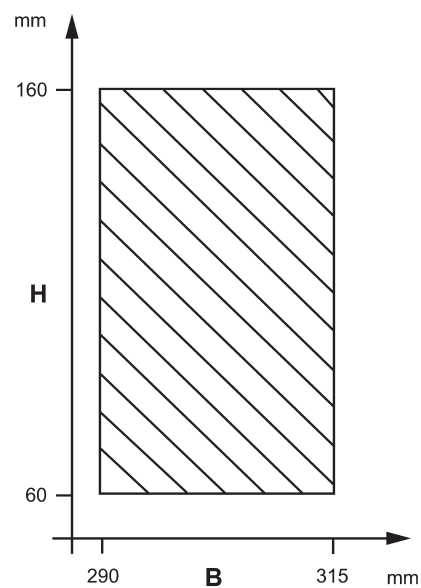
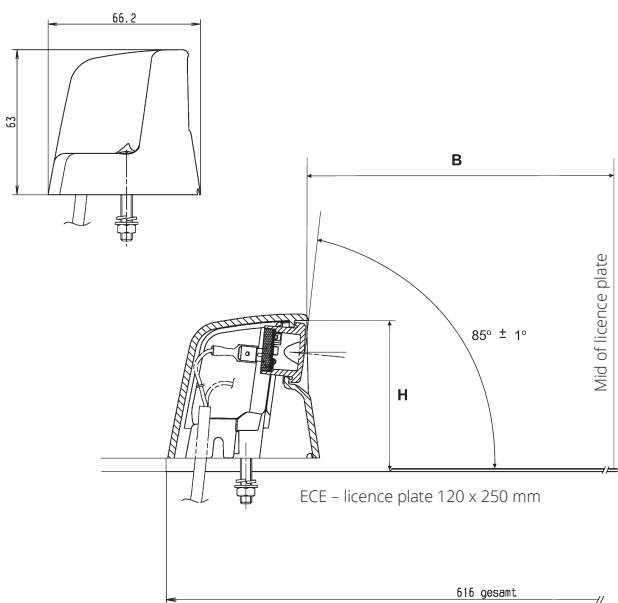
Licence plates 520 x 120 mm

## Installing the flush-mounting version



For installation above a licence plate of the size 520 x 120 mm, 2 lights are required (each 130 mm away from the centre of the licence plate).

## Installing the surface-mounting version



For installation on the left or right of a licence plate of the size 520 x 120 mm, only 1 light is required (aligned centrally to the licence plate).

# TECHNICAL DETAILS

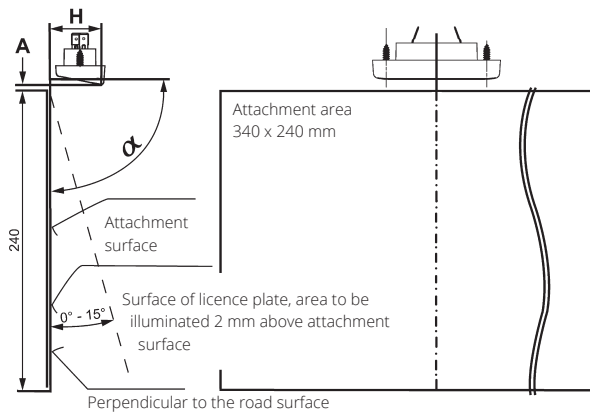
## Licence plates 340 x 240 mm

The distances A and H must be chosen in such a way that they are within the shaded tolerance fields shown.

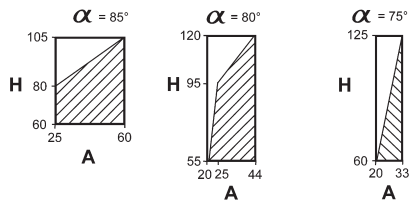
### Installing the flush-mounting version

View from the side

View from the front



Angle = 90°  
H = 70  
A = 37

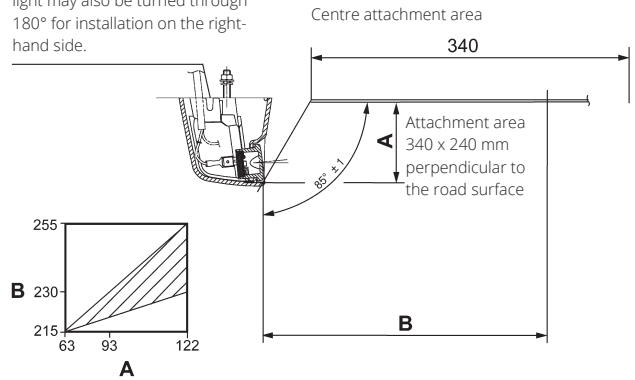


The distances A and B must be chosen in such a way that they are within the shaded tolerance fields shown.

### Installing the surface-mounting version

View from above

Alignment of the light centrally to the licence plate. The licence plate light may also be turned through 180° for installation on the right-hand side.



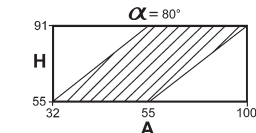
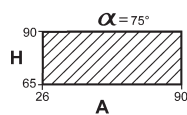
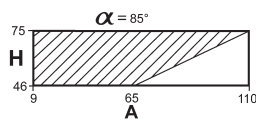
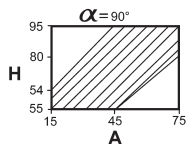
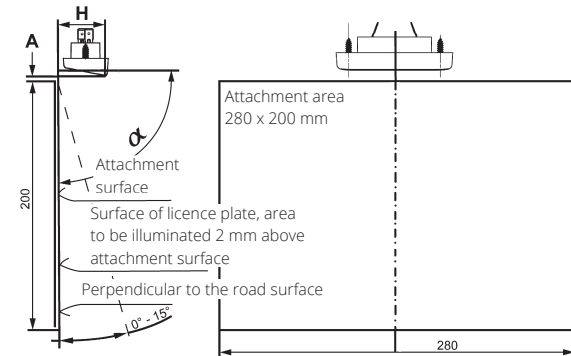
## Licence plates 280 x 200 mm

The distances A and H must be chosen in such a way that they are within the shaded tolerance fields shown.

### Installing the flush-mounting version

View from the side

View from the front

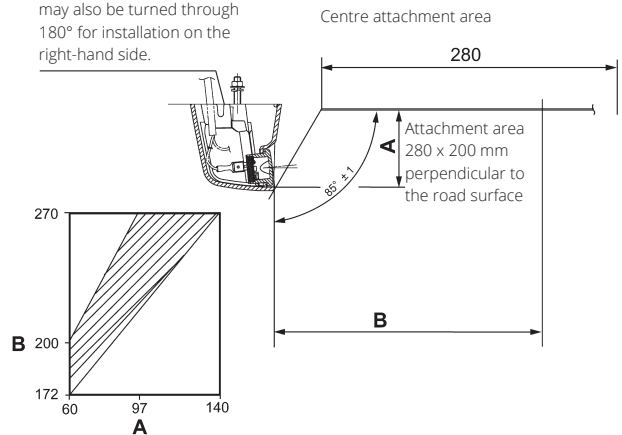


The distances A and B must be chosen in such a way that they are within the shaded tolerance fields shown.



### Installing the surface-mounting version

View from above

Alignment of the light centrally to the licence plate. The licence plate light may also be turned through 180° for installation on the right-hand side.



# PROGRAM OVERVIEW

Product photo	Description	Rated voltage	Installation	Part number	VPE*
<b>For 520 x 120 mm licence plates</b>					
	With frame, connection 6.3 x 0.8 flat receptacles	12 V	Flush- mounting**	2KA 010 278-311	1
				2KA 010 278-317	196
		24 V	Flush- mounting**	2KA 010 278-011	1
				2KA 010 278-017	196
	With housing, connection 6.3 x 0.8 flat receptacles	12 V	Surface- mounting***	2KA 010 278-321	1
				2KA 010 278-327	84
		24 V	Surface- mounting***	2KA 010 278-021	1
				2KA 010 278-027	84
	Potted housing, with 2-pole cable, 2,000 mm, 6.3 x 0.8 blade sliders	24 V	Surface- mounting**	2KA 010 278-031	1
				2KA 010 278-037	****
<b>For 340 x 240 mm and 280 x 200 mm licence plates</b>					
	With frame, connection 6.3 x 0.8 flat receptacles	12 V	Flush- mounting**	2KA 010 278-411	1
		24 V		2KA 010 278-111	1
	With frame, connection 6.3 x 0.8 flat receptacles	12 V	Surface- mounting**	2KA 010 278-421	1
		24 V		2KA 010 278-121	1

\* Packaging unit

\*\* 2 lights required above the licence plate.

\*\*\* 1 light required to the right or left of the licence plate.

\*\*\*\* Approval in the event of sufficient demand.

The individual light functions may only be operated with a vehicle fuse of max. 3 A.