

## BRIEF INFORMATION

### LED Light Control Unit

- LED light control unit for connection of LED lights to conventional light control units
- Basic Control Unit: for legally required direction indicator failure control
- Premium Control Unit: for useful and convenient monitoring of direction indicators and the stop lights.
- Maximum compatibility thanks to simulation of the bulb characteristic

## PRODUCT FEATURES

HELLA offers two different types of LED light control units designed to monitor lighting function.

- **Basic Version:** This only monitors the direction indicator
- **Premium Version:** This monitors the direction indicators and stop lights.

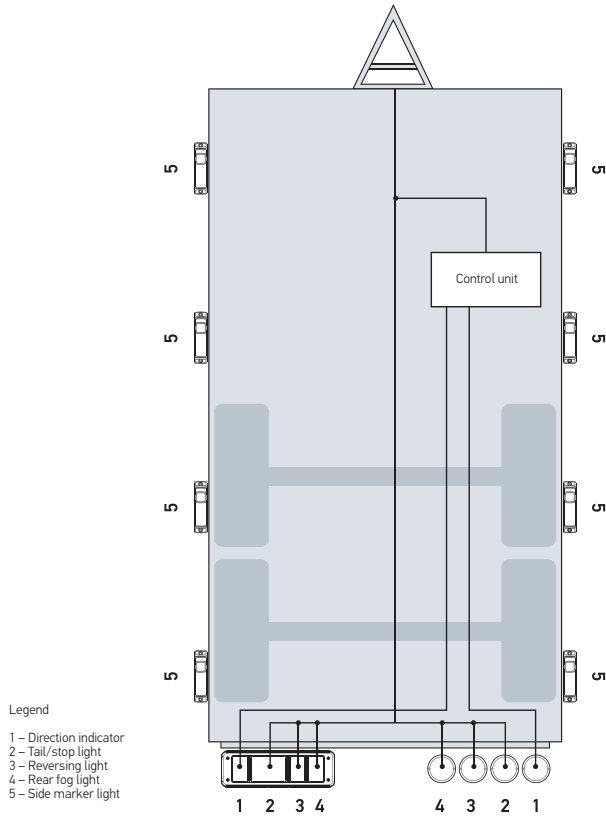
Only one control unit is required for the left and the right side.

- The Deutsch connector, itself integrated in the housing, enables easy integration in the vehicle architecture
- Active thermal management, including overheating protection, for a long service life
- Completely watertight and dust-proof for maximum functioning safety
- Electromagnetic compatibility (EMC) for trouble-free use of, for example, radio

# BASIC CONTROL UNIT

## System representation: Basic

Control unit is **responsible only** for monitoring the direction indicators.



## Connection diagram for Basic control unit

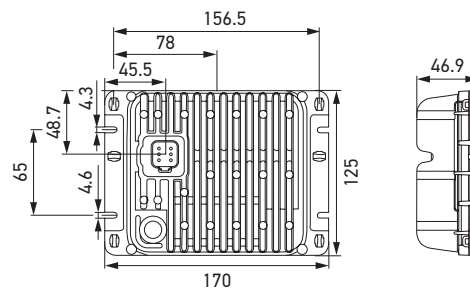
- 1 Input Direction indicator, right
- 2 Input Ground
- 3 Input Direction indicator, left
- 4 Output Direction indicator, left
- 5 Output Ground
- 6 Output Direction indicator, right

# TECHNICAL DETAILS

## Technical data

|                            |       |        |
|----------------------------|-------|--------|
| Operating voltage          | 12 V  | 24 V   |
| Current consumption (min.) | 1.4 A | 0.78 A |
| Current consumption (max.) | 2 A   | 0.9 A  |

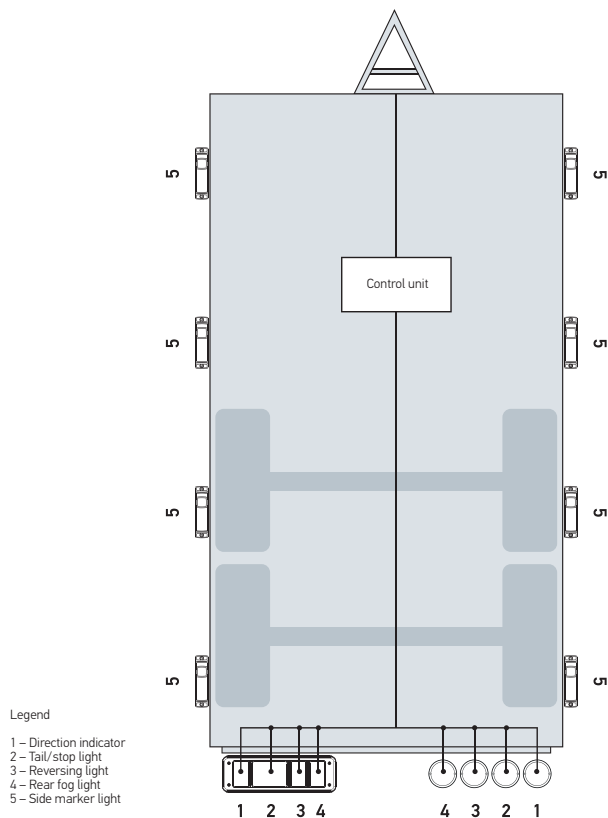
## Dimensional sketch



# PREMIUM CONTROL UNIT\*

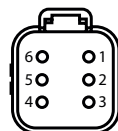
## System representation: Premium

Control unit is responsible for the direction indicators and stop lights.



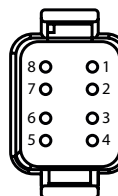
### Connection diagram for Premium control unit

#### 6-pin



- 1 Input Direction indicator, right
- 2 Input Ground
- 3 Input Direction indicator, left
- 4 Output Direction indicator, left
- 5 Output Ground
- 6 Output Direction indicator, right

#### 8-pin "IN" and "OUT"



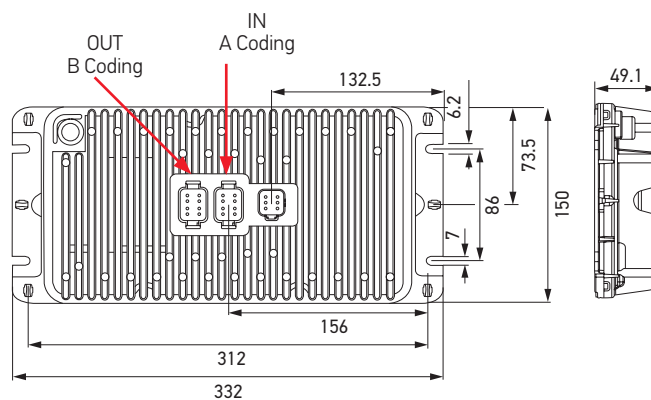
- 1 Stop light, left
- 2 Tail light, right
- 3 Tail light, left
- 4 Stop light, right
- 5 Reversing light
- 6 Rear fog light
- 7 Ground
- 8 Free

## TECHNICAL DETAILS

### Technical data

|                            |       |        |
|----------------------------|-------|--------|
| Operating voltage          | 12 V  | 24 V   |
| Current consumption (min.) | 1.4 A | 0.78 A |
| Current consumption (max.) | 2 A   | 0.9 A  |

### Dimensional sketch



\* With 1-channel operation only the left pin is used IN/OUT, the right one has no function. See page 4 for part numbers.

# RANGE OVERVIEW

| Description   | Part number     | PU* |
|---|-----------------|-----|
| <b>Basic Control Unit**</b>                                     |                 |     |
| 12 V, with 6-pin socket housing                                 | 5DS 227 488-001 | 1   |
| 24 V, with 6-pin socket housing                                 | 5DS 227 488-101 | 1   |
| <b>Premium Control Unit</b>                                     |                 |     |
| 24 V, with 8-pin socket housing (1 stop light channel)          | 5DS 227 489-101 | 1   |
| <b>Accessories</b>  |                 |     |
| Wire harness with EasyConn-connectors, for Basic Control Unit   | 8KA 340 128-001 | 1   |
| Wire harness with EasyConn-connectors, for Premium Control Unit | 8KA 340 128-011 | 1   |
| Wire harness with 6.3 mm-tabs, for Basic Control Unit           | 8KA 340 128-021 | 1   |
| <b>Sets (Control Unit + Harness)**</b>                          |                 |     |
| 24 V-Basic Control Unit + wire harness with EasyConn-connectors | 5DS 009 552-081 | 1   |
| 24 V-Basic Control Unit + wire harness with 6.3 mm-tabs         | 5DS 009 552-101 | 1   |

\* Packaging unit

\*\* Constant vehicle electric system voltage to the rear lamps must be guaranteed.