

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 all lighting functions including direction indicator light failure
- 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 all lighting functions

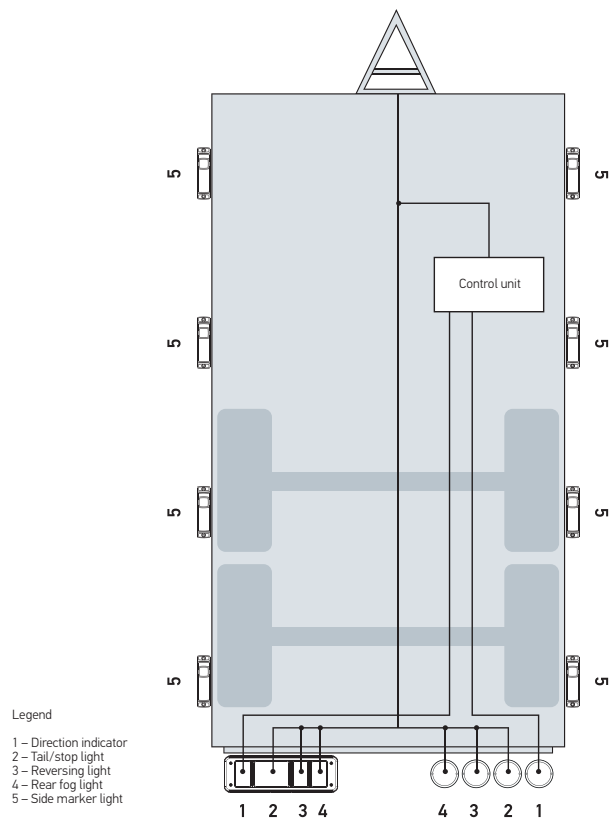
Only one control unit is required for the left and the right side.

- 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.



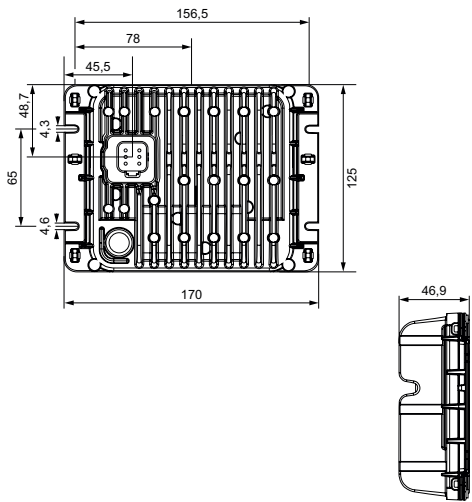
Connection diagram for Basic control unit

- 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

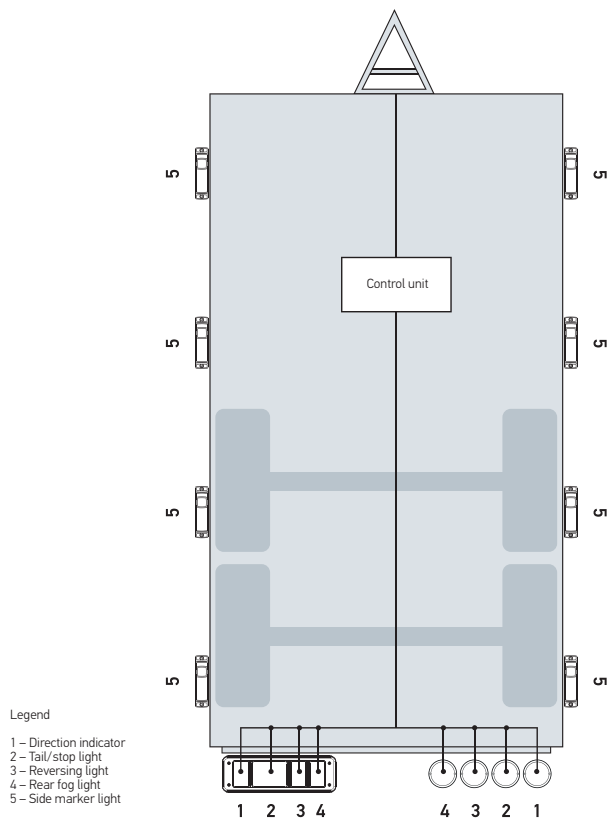
Dimensional sketch



PREMIUM CONTROL UNIT*

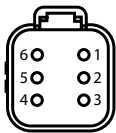
System representation: Premium

Control unit is responsible for monitoring **the whole** rear lighting (tail lights, stop lights, direction indicators, reversing light and rear fog light).



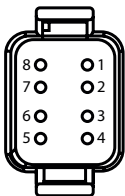
Connection diagram for Premium control unit

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

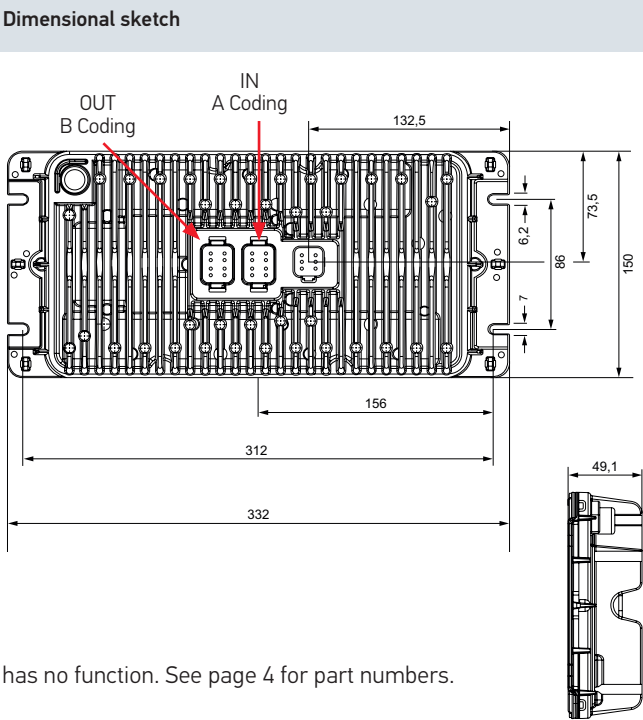
8-pin "IN" and "OUT"



- 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



* 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
Basic Control Unit	
12 V	5DS 227 488-001
24 V	5DS 227 488-101
Premium Control Unit	
12 V (1 stop light channel)	5DS 227 489-001
12 V (2 stop light channels)	5DS 227 489-011
24 V (1 stop light channel)	5DS 227 489-101