



BRIEF INFORMATION

Simulation device for cold check with LED lamps

- For individual function monitoring of LED direction indicators compatible with ISO standard 13207-1
- Storage and transmission of the last function status of the LED direction indicator to the central control unit
- For vehicles with 12 V and 24 V vehicle electrical system voltage
- Connector configuration compatible with ISO 7588-2

PRODUCT FEATURES

Application

If the existing vehicle electrical system is programmed to monitor the lighting even when it is not in operation, this is referred to as a cold check. During a cold check, a small test pulse is transmitted to the lamp while it is switched off to see whether this pulse is discharged via the bulb to ground. The energy here is so low that the bulb does not light up.

As LED lamps are essentially not suitable for this form of monitoring, HELLA offers an electronic system for "simulation of the cold check" in order to ensure operation.

Design and function

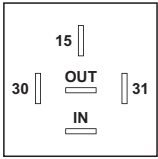
The simulation device is connected between the central control unit and an ISO 13207-compliant LED direction indicator.

The cold check control unit checks the function of the direction indicator during operation using the ISO pulse. If the direction indicator fails, the device saves the last status, which means this can then be displayed during the next cold check.

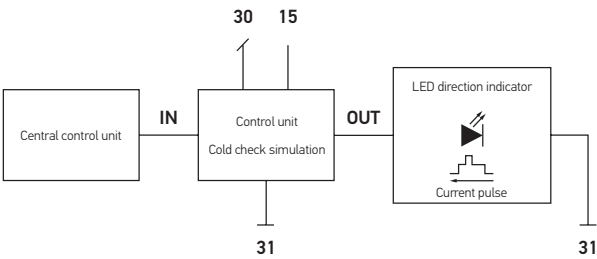
TECHNICAL DETAILS

Technical data		
Rated voltage	12 V	24 V
Operating voltage	10 – 15 V	18 – 32 V
Rated current	1.5 A	
Operating temperature	-40 °C to +85 °C	
Protection class	IP 54 (contacts underneath)	

Pin assignment / electrical connection



Block diagram



PROGRAM OVERVIEW

Voltage	Part number
12 V simulation device	5DS 009 602-011
24 V simulation device	5DS 009 602-001