

VLMS-1010

LED Light Monitor

Vseries

Key Features

- Failure Monitoring of up to 10 individual circuits
- Self-Calibration stores load characteristics of each circuit
- Failure Detection for >40% reduction of stored load
- Optional Pre-Check Function
- 24VDC Application
- EMC Approved to 2004/104/EC



Description

The VLMS-1010 connects in-line with vehicle lighting circuits to passively monitor up to 10 separate circuits, with a maximum load of 10W each. When the load of a circuit falls below the failure detection threshold, due to a partial failure or an open-circuit, individual outputs provide failure feedback. The VLMS-1010 is designed to work with a wide range of LED lights.

Self-Calibration for Failure Detection

During installation, the VLMS-1010 operates a self-calibration cycle where it stores the normal operating load of each monitored circuit - calibration can be repeated at any time. The stored values are used to determine when the circuit load has reduced by 40% or more and a failure has occurred. Alternative failure thresholds can be requested. Under failure conditions, a feedback output becomes active for each affected circuit - this is ideal for controlling a dedicated warning light or buzzer, or for activating an audible message when connected to a Vseries Vehicle Multi-Message System (VMMS).

Pre-Check

The VLMS-1010 includes the facility to provide the driver with an operating check for all connected lights. Within the first 5 minutes after power-up, the driver can energise each light circuit to test its operation and the VLMS-1010 provides an output signal if all circuits are operating within the failure threshold. This can interface with a VMMS for driver feedback.

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