

# Light Failure Control

## Failure Control Security around the clock

European lighting requirements are very specific. Any vehicle designated for use on European roads must fulfill certain requirements to obtain ECE homologation and an on board system to monitor the lighting is obligatory. The system must ensure the driver is aware of any failure of lights or indicators by a visual or acoustic warning signal.



So far so good but unfortunately there is the problem.

Most vehicles' electronics have been designed for previously conventional halogen or xenon lighting and the diagnostic systems were designed accordingly.

However not only do modern LED modules have an amazing light output they also have an extremely low energy consumption so this reduced load is identified as a failure by a conventional diagnostic system.

Simply introducing a resistor in the circuit to solve the failure identification problem would not only reduce light output and negate any energy saving it would more seriously risk circuit overheating and possible fire so this this is not an option.

A state of the art electronic solution is needed: **NCC® LMS**.

# Light Failure Control



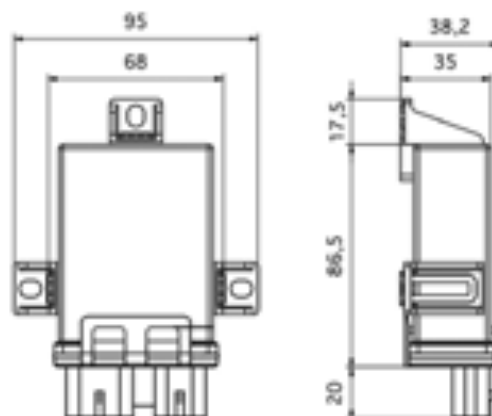
## NCC® LMS

The **NCC® LMS** is needed in order to guarantee the function of a light failure control of onboard LED lights, rear lights and indicators. Two functions are combined in one module:

- Simulation of a conventional halogen light with typical switch-on pulse and programmable charge
- Failure detection of a defect LED light when power falls below a defined current value

**NCC**

Technical data		
Dimensions	124x95	mm
Voltage	8-33	V
Permitted load	2.4	A (permanent)
Failure detection	15	mA
Load capacity switching output	100	mA
Weight	90-120	g (depending on version)
Approval	EN 50 155	
Material housing	PA6GF	
IP protection class	IP67/IPX9K	
	Only with additional frame and connector for 2C and 3C versions	
Type approval	EN 50 155	
Specification	On request	
Temperature	-40°C - +85°C	
Connections	Tyco Superseal 2-Pol und 3-Pol (1 channel version) Tyco Junior Timer 16-Pol (2 channel und 3 channel version)	
Description	Article number	
1 channel	LMS-1K	
2 channel	LMS-2KU	
3 channel	LMS-6KU	



Errors and omissions excepted. Date 08-2018