

# Light sensor, replacement for „SICK“

The pictured light sensor by manufacturer Sick, for door protection in trains and buses can be completely replaced by a compatible redesign.

The so far relatively complex adjustment of the mirror optics, which focuses the ray on the reflector, ceases with the new light sensors. The new devices can be mounted "plug-and-play" on the designated places without any further adjustment.

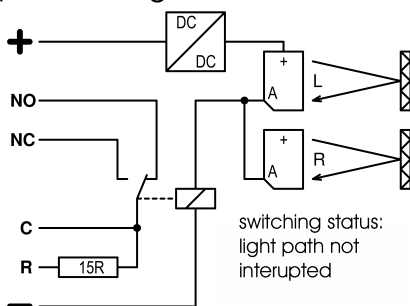
The solid, black anodized aluminum cases are protected against vandalism, by dispensing with destructible front glass or lense, respectively, so malfunctions due to scratched, misted or dirty glasses or lenses are avoided.

The light sensors are constructed as unilaterally (mounting right or left) or mutually operating reflex-light sensors for prism reflectors. The double-acting devices have two independent pending monitoring routes that are linked to an output relay via an Or function. Highly reliable relays with  $3 \times 10^6$  switching cycles are incorporated.

The relay emits a clear "click sound" to enable a good acoustic verification of perfect function on-site.

The devices are connected via a pluggable solid terminal strip in a significantly enlarged terminal compartment.

## Principle drawing



terminal compartment



Example: Original Sick



New: LIS-BS

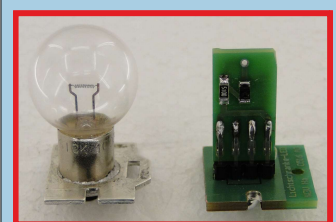
## For operational maintenance of older original Sick-light sensors:

### Replacement illuminants for Sick

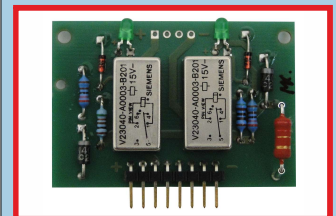
When the original illuminant with low-voltage lamp may not be available anymore, a plug-and-play compatibly applicable illuminant with 2 infrared LEDs is available. **Type: LM-ERS-LED.**

### Relay module for TL43

When the original module by Sick with 2 relays is not available anymore, the redesign of this module can be mounted via plug-and-play on the designated place in the light sensor by Sick. **Type: VEW Relais TL43 RED**  
**Sample available ex stock.**



ORIGINAL LM-ERS-LED



Relais-PCB

## Technical data:

Supply: 18..30V DC 0,1A  
Monitoring line: max. 1,5m  
Unilateral left, right; mutual  
Type: LIS-EL, LIS-ER, LIS-BS

Dimensions: 100x60x80 Ø 35mm  
Output: galv. separate relay 1 pol.UM 2A  
Function: relay switches off if the light path is interrupted either from left or right  
Durability: > 10 years  
Emitter: Infrared, opening angle, appr. 15°



## DIE ENTWICKLER

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