



LSL

Limit-value switch for light

Product description

The LSL is a universally applicable limit-value switch for brightness monitoring. With adjustment ranges of 2 to 50 kLux, many applications in the low light range or the automation of shading systems can be implemented.

With 2 operation modes and an automatically generated counter-pulse, rapid integration in a large number of systems is ensured.

Special features

- potential-free relay contacts
- electrically isolated sensor input (PELV)
- adjustable switch-on/off delay
- pulsed or constant actuation selectable
- automatic counter-pulse
- display for switch threshold and switch stated

Operation

The desired switching threshold is set with the „Lux“ control. The “hold“ LED acts as an adjustment aid, lighting up as soon as the brightness detected by photosensor SL1 exceeds/falls below the set limit.

After the set switch-on delay „t_{on}“ has elapsed, relay contact K24 is energised.

Depending on the “Mode” setting, K24 generates a control pulse lasting only 2s or remains energised during the entire actuation phase.

The „t_{off}“ control sets an off-delay in the range of 0,2 to 8 min. After this delay, a 2-second counter-pulse is activated by relay K14.

The relay states are displayed by the corresponding LED “K14” and “K24”.

Security advices

- Equipment connection and start-up shall be carried out by authorized skilled electricians only.
- For installation, assembly, operating and accident prevention please comply with the regional provisions in force.
- The device shall be disconnected prior to connection and maintenance operations.
- Do not start the device in case of dangerous situation, but rather set it out of service.
- The device shall be used for the intended use only and according to the specified technical data.
- The wiring of control section and BUS must meet SELV requirements.



SL1



Technical details

Operating voltage	230 V AC, 50/60 Hz, 10 %
Power input	ca. 0,4 W
Measuring range	ca. 2 – 50 Lux
Switching hysteresis	20 %
Switch-on delay	adjustable 0,1 bis 6 min
Switch-off delay	adjustable 0,2 bis 8 min
Sensor voltage	10 V DC PELV (short-circuit resistant)
Relay contacts	2 NO contact 250 V AC, 10 A potential-free
Contact load capacity	2 A
Ambient temperature	-10 °C to +45 °C
Interference immunity	compliant IEC 0801-4 level 4
Equipment protection	compliant IEC 0801-5 level 4
Creepage / clearance	compliant VDE 0110 size C/250 V
Insulated housing	flame-proof VDE 0304 part 3, level FV 0
Connections	terminals with captive screws M3,5 (4x1,5/2x2,5/1x4mm ²)
Fixing	clip fastening on 35 mm standard rail DIN EN 50 022
External dimensions	18 x 88(45) x 58 mm
Installation depth	55 mm
Weight	ca. 80 g
Colour (RAL)	grey 7035 / green 6029

Light sensor SL1

Construction	Outdoor sensor for wall-mounting
Degree of protection	IP 54
Cable length	max. 50 m (bei 2 x 0,25 mm ²)
Dimensions	ca. 53 x 36 mm



Connection plan

