



Limit-value switch for - Twilight GSD 2

Adjustment range 2-50 Lux

- Shading GSB 2

Adjustment range 2000-80000 Lux

Photosensor SL 1

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 state

GENERAL:

GSD 2 and GSB 2 are universally applicable limit-value switches for brightness monitoring. With adjustment ranges of 2-50 Lux for the GSD 2 and 2000-80000 Lux for the GSB 2, many applications in the low light range or the automation of shading systems can be implemented.

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

APPLICATION:

Twilight switch for light or OPEN/CLOSE controls, automation of louver blinds and awnings.

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 SL 1 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 - 8 min.. After this delay, a 2-second counter-pulse is activated by relay K14.

The relay states are displayed by the corresponding LEDs "K14" and "K24".

TECHNICAL DATA GSD 2 / GSB 2:

Operating voltage	230V 50/60Hz 10%
Power input	approx. 0.4W
Measuring range GSD 2	approx. 2-50 Lux
Measuring range GSB 2	approx. 2000->80000 Lux
Switching hysteresis	GSD 20% / GSB 40%
Switch-on delay	adjustable 0.1 - 6 min
Switch-off delay	adjustable 0.2 - 8 min
Sensor voltage	10V DC PELV (short-circuit resistant)
Relay contacts	2 NO 250V~ 10A (potential free)
Contact load capacity	see data sheet "Relay contacts"
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 Gr. C/250V
Insulated housing	flameproof to VDE 0304 part 3, level FV 0T
Connections	terminals with captive screws M3.5 (4x1.5 / 2x2.5 / 1x4mm ²)
Fixing	clip fastening on 35 mm standard rail DIN EN 50022
External dimensions	18x88(45)x58mm
Installation depth	55 mm
Weight	approx. 80g
Colour conforming to RAL	grey 7035 / green 6029

TECHNICAL DATA SL 1:

Construction	outdoor sensor for wall-mounting
Degree of protection	IP 54
Line length	max. 50m (for 2x0.25mm ²)
Dimensions	approx. 53x36mm

ORDERING INFORMATION:

Part No.	Type	Description
gsd209	GSD 2	Limit-value switch for twilight
gsb209	GSB 2	Limit-value switch for shading
sl1000	SL 1	Photosensor for limit-value switches