





Model Number

SLP8-2

Safety light grid

Features

- Sensing range 8 m
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- 2-radial design
- Beam spacing 500 mm
- Red transmission light
- · Integrated function display
- Pre-fault indication
- Operation on control units of SB4 (SafeBox)

Accessories

SLP-X-M

Deviation mirror for SLP

MS SLP

Mounting bracket for Light grid

PG SLP-X

Protective glass panes for SLP series

PG HOLDER SLP

Holders for SLP protective glass panes

PA SLP/SLC

Profile alignment aid

BA SLP

laser alignment aid for safety light grids series SLP

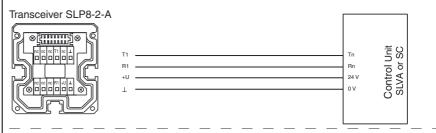
UC SLP/SLC

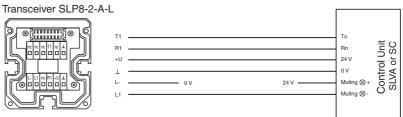
Floor stand for all series SLP/SLC devices

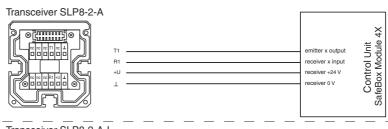
Additional accessories can be found in the Internet.

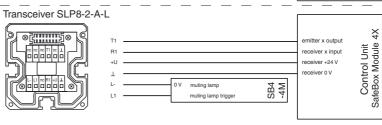
Option -L with indicator lamp (transceiver only) Mirror SLP8-2-M Transceiver SLP8-2-A Status indicator safety beam Operation display Cable gland M16 33.5 Operation display

Electrical connection









Technical data

System components

Transceiver SLP8-2-A SLP8-2-M Mirror pillar

General specifications

Effective detection range 0.2 ... 8 m LFD Light source

Light type modulated visible red light

Tests IEC/EN 61496

Safety type according to IEC/EN 61496 Marking CE

Target size

static: 32 mm dynamic: 50 mm (at v = 1.6 m/s of the obstacle)

Beam spacing 500 mm Number of beams Angle of divergence < 5

Functional safety related parameters

SIL 3 Safety Integrity Level (SIL) Performance level (PL) Cat. 4 Category Mission Time (T_M) 20 a PFH_d 2.81 E-9 Type 4

Indicators/operating means

Operation indicator LED red in transceiver Function indicator LED red: per receiver channel

off: Interruption flashes: receiver

continuously on: reception with sufficient stability control

Pre-fault indicator Functional display flashing

Electrical specifications

Operating voltage U_{B} Power supply via control unit

Protection class Ш

Ambient conditions

Ambient temperature -20 ... 60 °C (-4 ... 140 °F) Storage temperature -20 ... 70 °C (-4 ... 158 °F) max. 95 %, not condensing Relative humidity

Mechanical specifications

Protection degree IP65

M16 cable gland, Connection terminal compartment

Connection options Further electrical connection options on request: Connector DIN 43 651 Hirschmann, emitter: 6-pin+PE, receiver: 11-pin+PE

Material

Housing extruded aluminum profile, RAL 1021 (yellow) coated

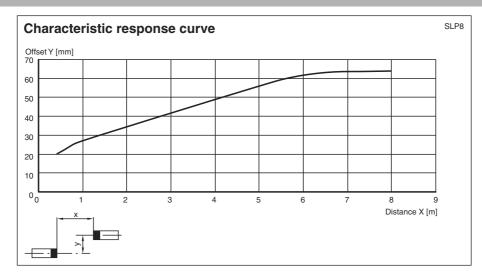
Optical face Plastic pane Per 2100 g

Approvals and certificates

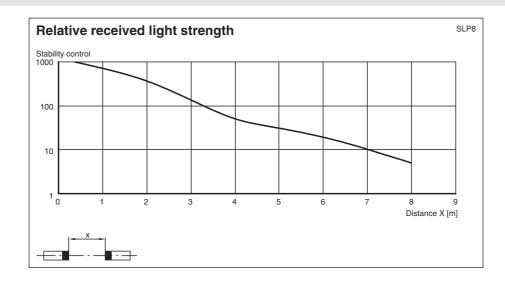
CCC approval CCC approval / marking not required for products rated ≤36 V

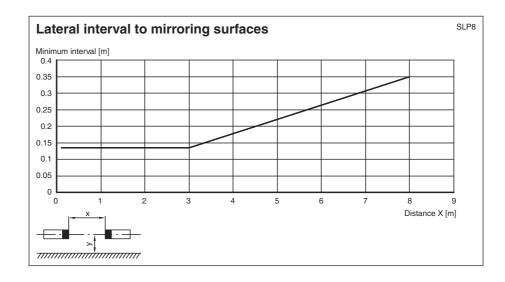
Approvals

Curves/Diagrams



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Application

The SLP8-2-A and SLP8-2-M devices can be used to set up dual-beam access protection with a fixed beam gap of 500 mm in accordance with EN 999. The SLP8-2-A profile comprises a light source and a light receiver (active). This device must be connected to the SLVA-4K+ and SLVA-8K evaluation units or to SB4-series switching devices. The SLP8-2-A cannot be operated without an evaluation unit.

The SLP8-2-M profile includes two reflecting mirrors arranged in such a way that the light beam emitted from the transmitter on the SLP8-2-A is returned at a distance of 500 mm and is picked up by the receiver on the SLP8-2-A.

This safety thru-beam sensor system may only be used in accordance with its intended purpose as an **a**ctive opto-electronic **p**rotective **d**evice (AOPD) for securing hazardous areas.

If used for any other purpose, the intended function of the system cannot be guaranteed.

The applicable safety regulations, standards and provisions must be observed when operating the system, and the specific requirements of the application in question must be taken into consideration.

System accessories

- Control unit SafeBox
- Mounting set MS SLP
- Protective glass pieces for SLP (to protect the optically functional surface)
- Ground pillar UC SLP/SLC
- Housing for pillar Enclosure UC SLP/SLC
- Collision protector
 Damping UC SLP/SLC



- Profile alignment aid
- Laser alignment aid SLP
- Redirection mirror for multi-side protection of hazardous areas SLP-...-M
- Muting Set MS SLP/SLA28 MS SLPCM

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