

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

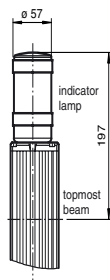
UC SLP/SLC

Floor stand for all series SLP/SLC devices

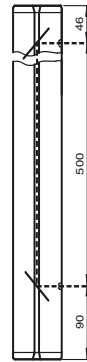
Additional accessories can be found in the Internet.

Dimensions

Option -L with indicator lamp (transceiver only)



Mirror SLP8-2-M



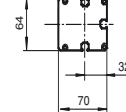
Transceiver SLP8-2-A



Status indicator safety beam

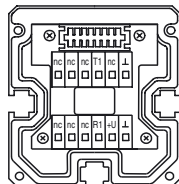
Operation display

cable gland M16

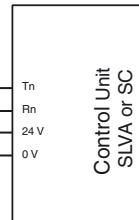


Electrical connection

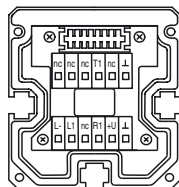
Transceiver SLP8-2-A



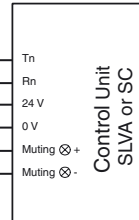
T1
R1
+U
L



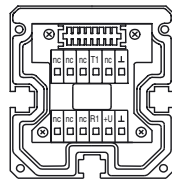
Transceiver SLP8-2-A-L



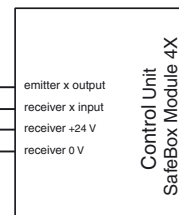
T1
R1
+U
L
L-
L+
L1



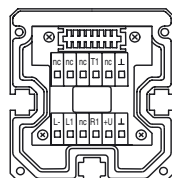
Transceiver SLP8-2-A



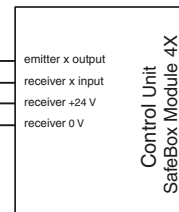
T1
R1
+U
L



Transceiver SLP8-2-A-L



T1
R1
+U
L
L-
L+
L1



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Subject to modifications without notice

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Technical data

General specifications

| | |
|---------------------------------------|--|
| Effective detection range | 0.2 ... 8 m |
| Light source | LED |
| Light type | modulated visible red light |
| Approvals | TÜV |
| Tests | IEC/EN 61496 |
| Safety type according to IEC/EN 61496 | 4 |
| 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 | 2 |
| Angle of divergence | < 5 ° |

Functional safety related parameters

| | |
|--------------------------------|----------|
| Safety Integrity Level (SIL) | SIL 3 |
| Performance level (PL) | PL e |
| Category | Cat. 4 |
| Mission Time (T _M) | 20 a |
| PFH _d | 2.81 E-9 |

Indicators/operating means

| | |
|----------------------|---|
| Operating display | LED red in transceiver |
| Function display | LED red: per receiver channel off: Interruption flashes: receiver continuously on: reception with sufficient stability control |
| Pre-fault indication | Functional display flashing |

Electrical specifications

| | | |
|-------------------|----------------|-------------------------------|
| Operating voltage | U _B | Power supply via control unit |
| Protection class | III | |

Ambient conditions

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

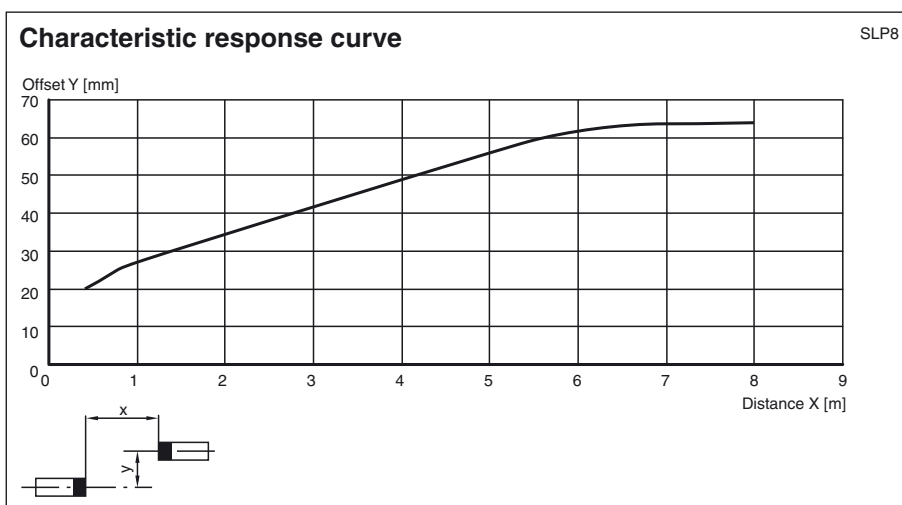
Mechanical specifications

| | |
|--------------------|--|
| Protection degree | IP65 |
| Connection | M16 cable gland , 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 |
| Mass | Per 2100 g |

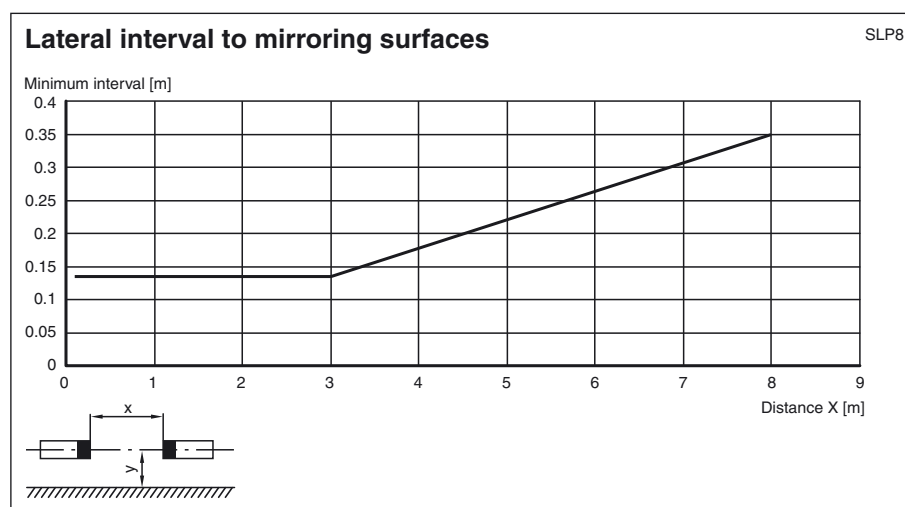
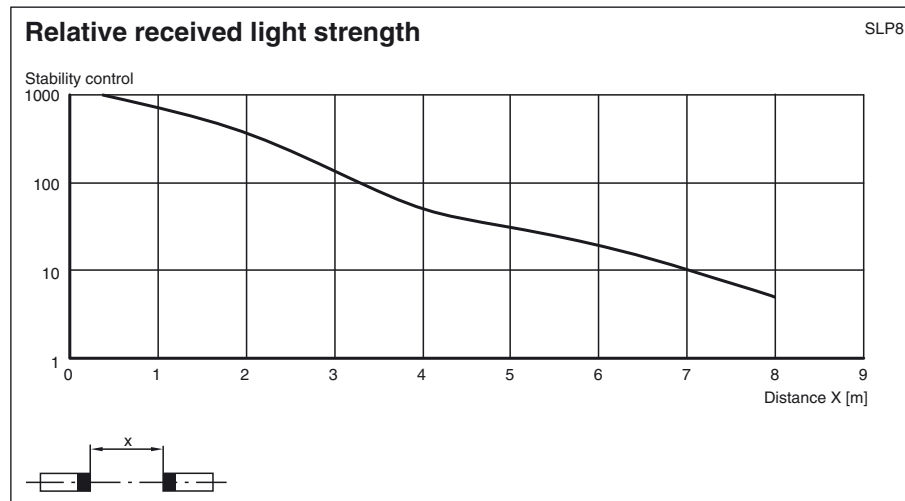
General information

| | |
|-------------------|----------|
| System components | |
| Transceiver | SLP8-2-A |
| Mirror pillar | SLP8-2-M |

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 active opto-electronic protective device (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

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- 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