

Model Number

SLP8-2-A-L

Safety light grid, active column

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

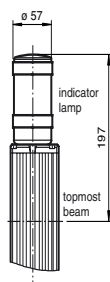
UC SLP/SLC

Floor stand for all series SLP/SLC devices

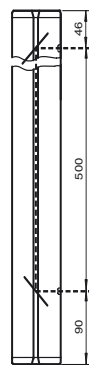
Other suitable accessories can be found at www.pepperl-fuchs.com

Dimensions

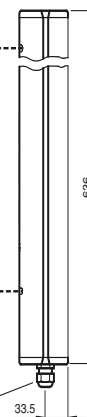
Option -L with indicator lamp (transceiver only)



Mirror SLP8-2-M

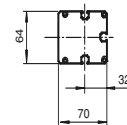


Transceiver SLP8-2-A



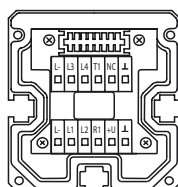
Status indicator safety beam

Operation display



Electrical connection

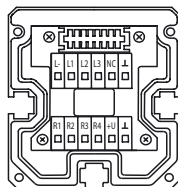
SLP8-2-A-L



- Connecting cable 1
- ⊥ 0-V evaluation unit
 - T1 Transmitter 1
 - L4 Voltage, lamp 4
 - L3 Voltage, lamp 3
 - L- 0-V lamp circuit

- Connecting cable 2
- ⊥ 0-V evaluation unit
 - +U 24-V evaluation unit
 - R1 Receiver 1
 - L2 Voltage, lamp 2
 - L1 Voltage, lamp 1
 - L- 0-V lamp circuit

SLP..-n -L



- Connection for receiver
- ⊥ 0-V evaluation unit
 - +U 24-V evaluation unit
 - R1 Receiver 1
 - R2 Receiver 2
 - R3 Receiver 3
 - R4 Receiver 4

- Connection for signal lamps
- L- 0-V lamp circuit
 - L1 Voltage, lamp 1
 - L2 Voltage, lamp 2
 - L3 Voltage, lamp 3

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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
Muting display	Indicator lamp
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

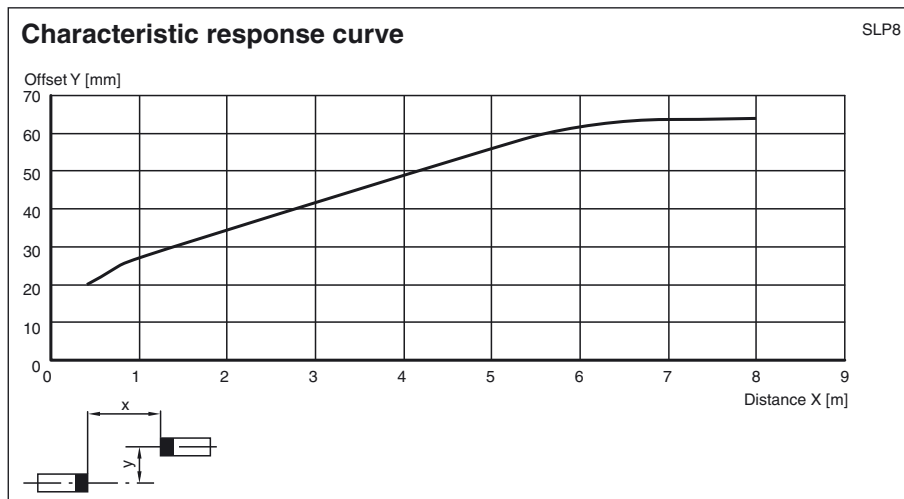
Mechanical specifications

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

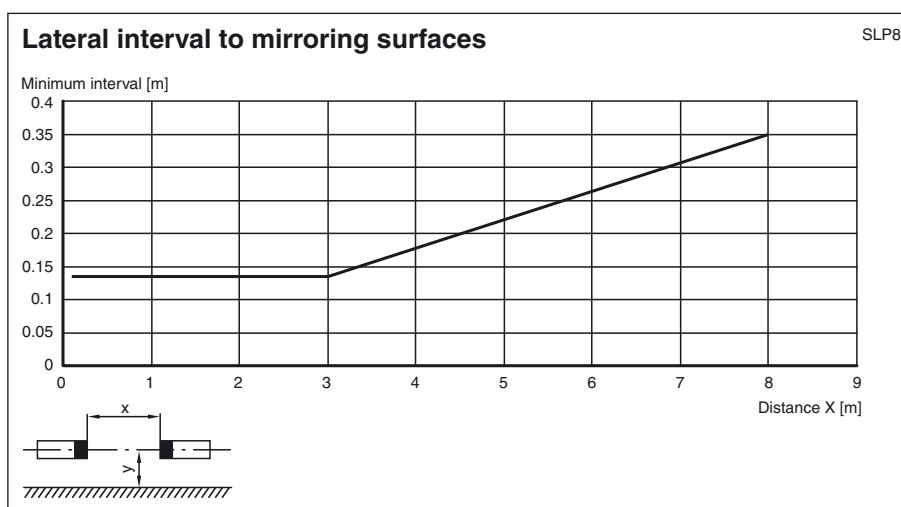
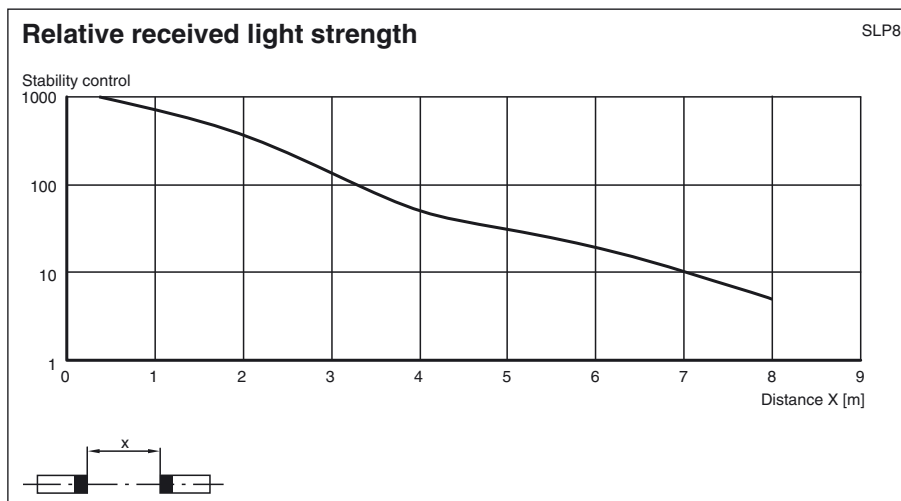
General information

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

Curves/Diagrams



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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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