

Model Number

SLP10-2-L

Safety light grid

Features

- Sensing range up to 10 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

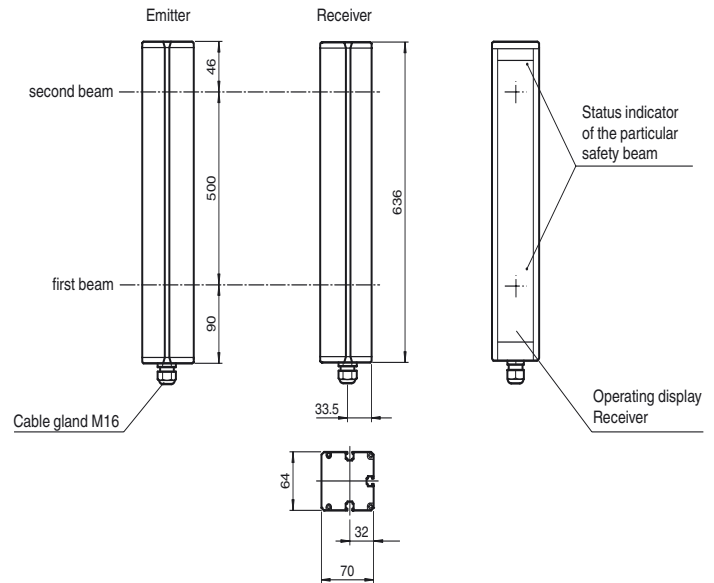
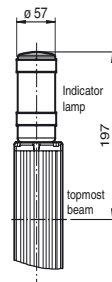
UC SLP/SLC

Floor stand for all series SLP/SLC devices

Additional accessories can be found in the Internet.

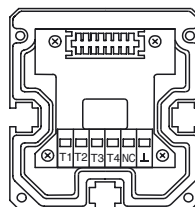
Dimensions

Option -L with indicator lamp
(receiver only)



Electrical connection

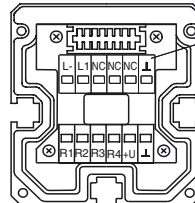
Emitter SLP



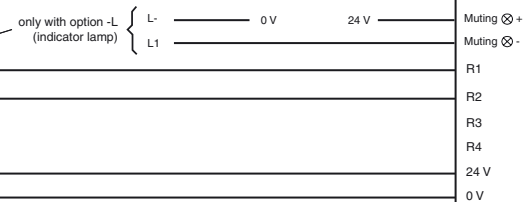
T1
T2
⊥

T1
T2
T3
T4
0 V

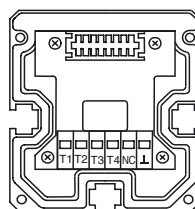
Receiver SLP (-L)



R1
R2
+U
⊥



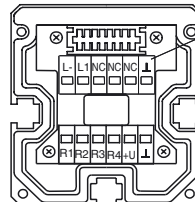
Emitter SLP



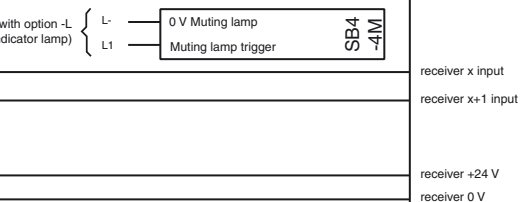
T1
T2
⊥

emitter x output
emitter x+1 output
emitter 0 V

Receiver SLP (-L)



R1
R2
+U
⊥



Technical data

General specifications

Effective detection range	0.2 ... 10 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
Type	4

Indicators/operating means

Operating display	LED red in receiver
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

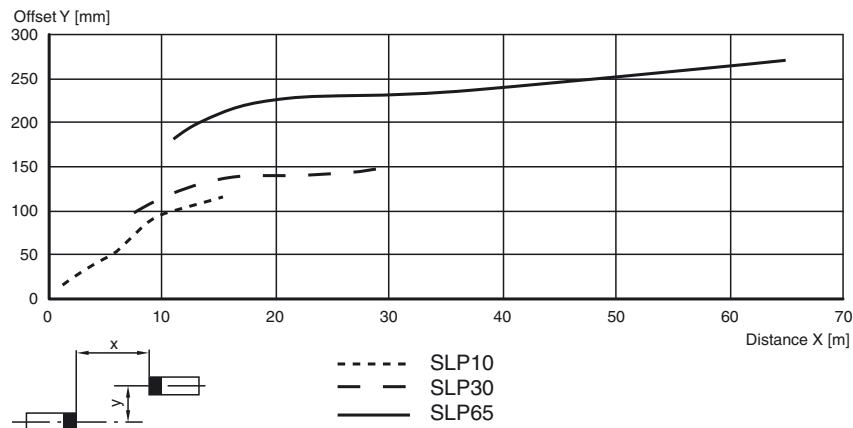
System components	
Emitter	SLP10-2-T
Receiver	SLP10-2-R-L

Approvals and certificates

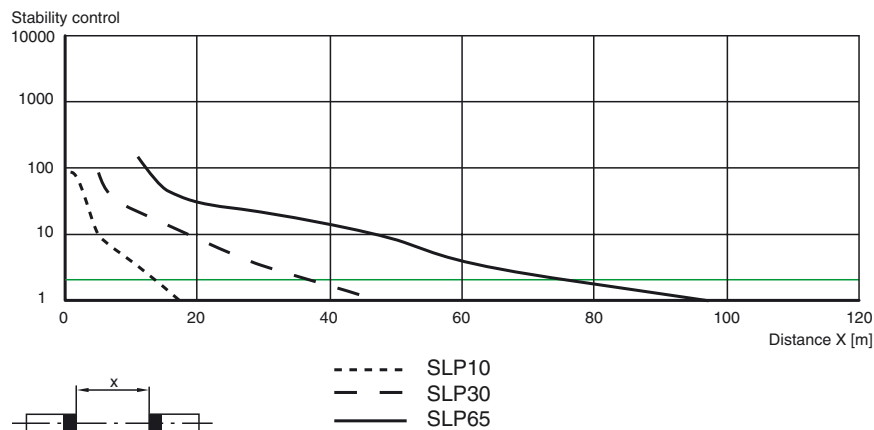
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.
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Curves/Diagrams

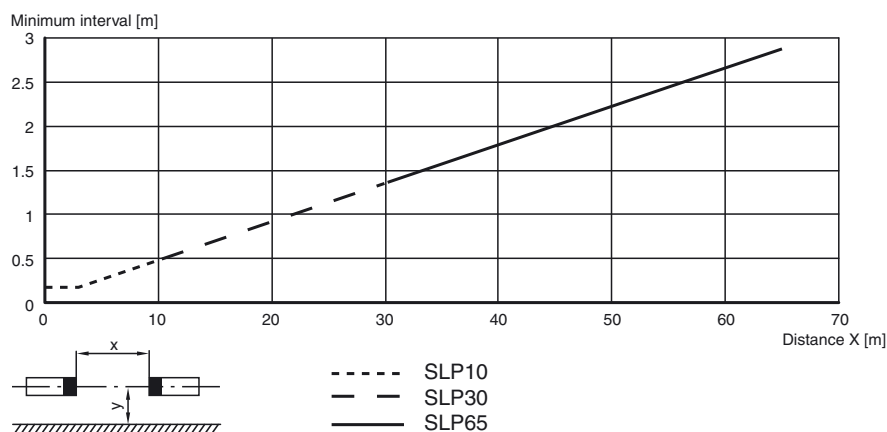
Characteristic response curve



Relative received light strength



Lateral interval to mirroring surfaces



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