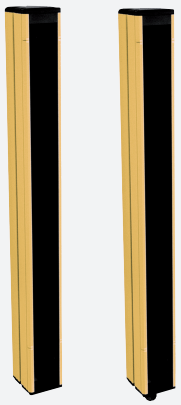
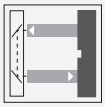


Safety light grid

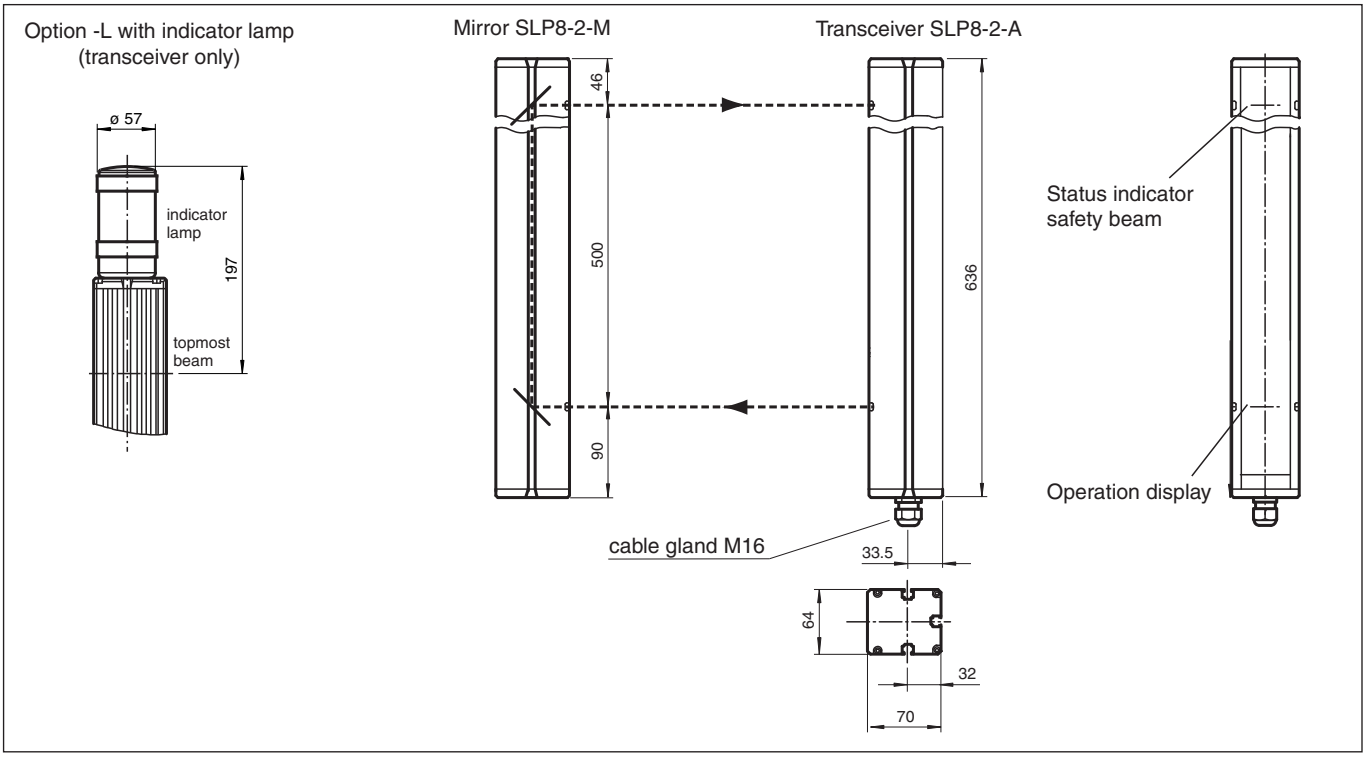
SLP8-2



- 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)

Safety light grid

Dimensions



Technical Data

System components	
Transceiver	SLP8-2-A
Mirror pillar	SLP8-2-M
General specifications	
Effective detection range	0.2 ... 8 m
Light source	LED
Light type	modulated visible red light
Tests	IEC/EN 61496
Safety type according to IEC/EN 61496	4
Marking	CE

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Technical Data

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		
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		
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		III , IEC 61140
Conformity		
Functional safety		ISO 13849-1
Product standard		EN 61496-1 ; IEC 61496-2
Approvals and certificates		
CE conformity		CE
Approvals		TÜV SÜD
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		
Degree of protection		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

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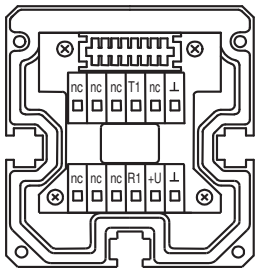
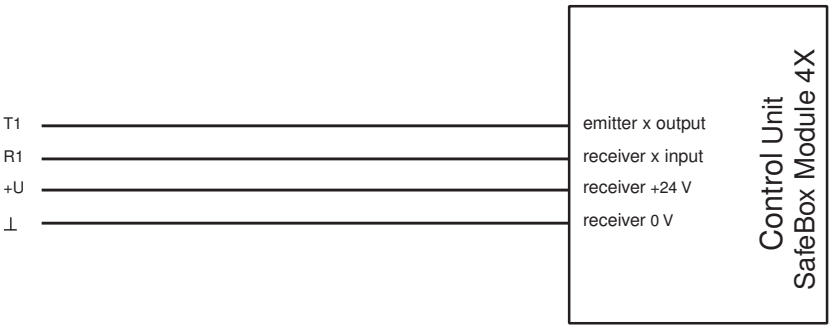
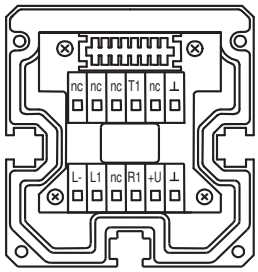
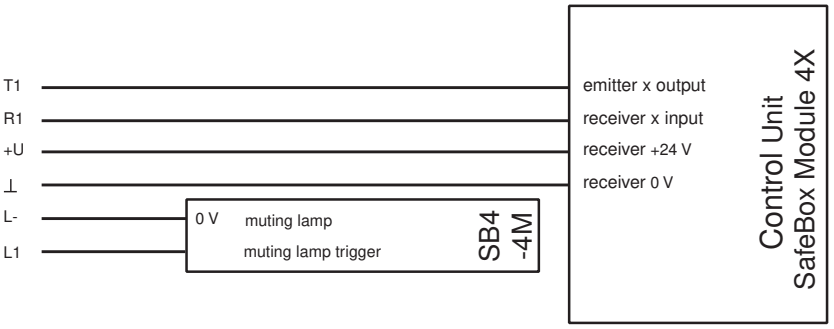
Transceiver SLP8-2-A





Transceiver SLP8-2-A-L

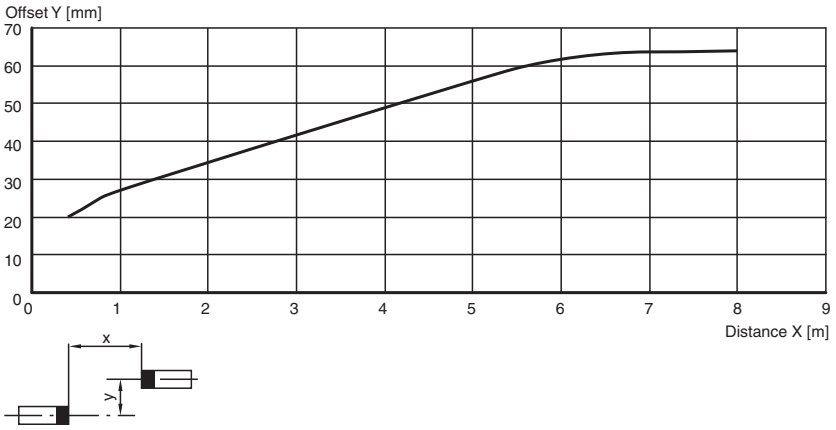




Characteristic Curve

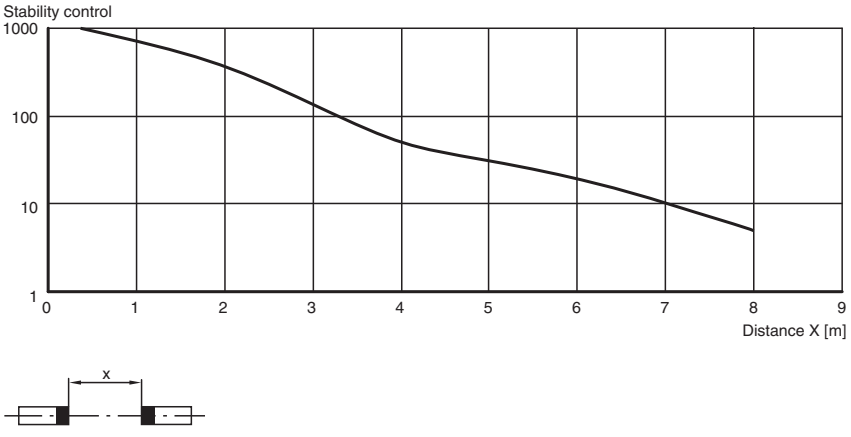
Characteristic response curve

SLP8



Relative received light strength

SLP8



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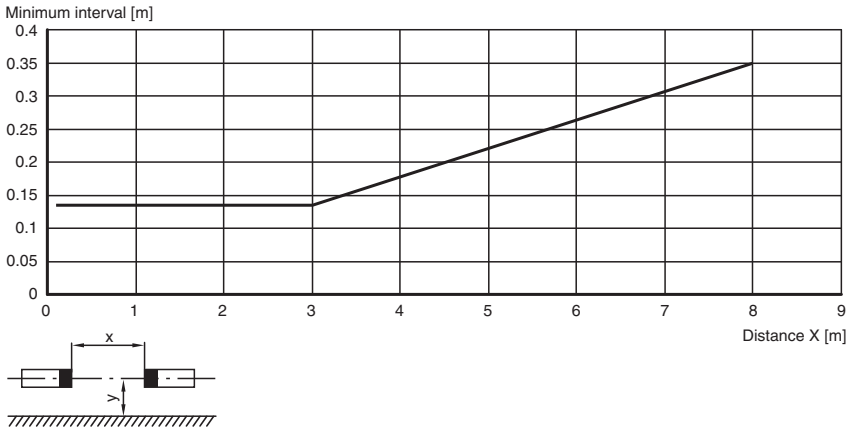
Lateral interval to mirroring surfaces

SLP8



Matching system components

	**SB4-OR-4XP-B-4159**	Safety control unit
	**SB4-OR-4XP**	Safety control unit
	**SB4-OR-4XP-B**	SB4 series safety control unit with 1 optional module slot for functional enhancement
	**SB4-OR-4XP-B-B**	SB4 series safety control unit with optional module slots for functional enhancement
	**SB4-OR-4XP-B-B-B**	SB4 series safety control unit with optional module slots for functional enhancement
	**SB4-OR-4XP-B-B-B-B**	SB4 series safety control unit with optional module slots for functional enhancement
	**SB4-OR-4XP-B-B-B-B-B-B**	SB4 series safety control unit with optional module slots for functional enhancement
	**SB4-OR-4XP-B-4158**	Safety control unit
	**SB4-OR-4XP-3819**	Safety control unit
	**SB4-OR-4XP-4M**	Safety control unit
	**SB4-OR-4XP-4MD**	Safety control unit
	**SB4-OR-4XP-4M-4136**	Safety control unit of series SB4
	**SB4-OR-4XP-4X**	Safety control unit
	**SB4-OR-4XP-4X-3819**	Safety control unit
	**SB4-OR-4XP-4136**	Safety control unit of series SB4

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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**	Alignment aid for SLP and SLC series profile light grids
	**UC SLP/SLC**	Floor stand for all series SLP/SLC devices
	**UC SLP/SLC 1530 mm**	Floor stand for all series SLP/SLC devices
	**Damping UC SLP/SLC**	Shock absorber as ramming protector for all series SLP/SLC devices
	**Enclosure UC SLP/SLC**	Housing for floor stand
	**MS SLP/SLA28**	Fixing plate
	**BINDER SLPC/M**	Cable tie for the secure laying and fixing of the connection leads, in particular for the muting sensors connected to safety light grids.
	**PG SLP-2**	Protective glass panes for SLP series
	**SLP8-2-M**	Deviation mirror

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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.

Accessories

Additional accessories can be found in the Internet.

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