

Safety light curtain SLC90-900-S



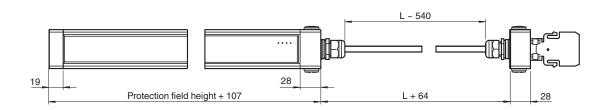
- Sensing range up to 15 m
- Resolution 90 mm
- Protective field height up to 1800 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and Play
- Start/Restart disable
- Degree of protection IP67
- Integrated function display
- Pre-fault indication
- Safety outputs OSSD in potential-separated semiconductor design or with monitored, compelled connection NC-contacts
- Optional with ATEX certificates for zone 2 and 22 and degree of protection IP66 (Option 133)







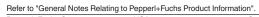
Dimensions



Technical Data

System components	
Emitter	SLC90-900-T-S
Receiver	SLC90-900-R-S
General specifications	
Effective detection range	0.2 15 m
Light source	IRED

Light type		modulated infrared light
LED risk group labelling		exempt group
Tests		IEC/EN 61496
Safety type according to IEC/EN 61496		4
Width of protected area		0.2 15 m
Protection field height		900 mm
Number of beams		12
Operating mode		in the master
Optical resolution		90 mm
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		1.03 E-8
Туре		4
Indicators/operating means		
Operation indicator		in the master
Diagnostics indicator		in the master
Function indicator		in the master
Pre-fault indicator		in the master
Control elements		in the master
Electrical specifications		
Operating voltage	U_B	from master
No-load supply current	I_0	from master
Protection class		III
Input		
Test input		in the master
Function input		in the master
Output		
Safety output		in the master
Signal output		in the master
Response time		depends on height of protective field
Conformity		dopondo en neigin en presedente neia
Functional safety		ISO 13849-1
Product standard		EN 61496-1 ; IEC 61496-2
Approvals and certificates		LIV 01430 1 , ILO 01430 2
CE conformity		CE
•		cULus Listed
UL approval		
CCC approval		CCC approval / marking not required for products rated ≤36 V TÜV
TÜV approval		100
Ambient conditions		0. 55.00 (00. 404.05)
A III II		0 55 °C (32 131 °F)
Ambient temperature		-25 70 °C (-13 158 °F)
Storage temperature		05.04
Storage temperature Relative humidity		max. 95 %, not condensing
Storage temperature Relative humidity Mechanical specifications		
Storage temperature Relative humidity Mechanical specifications Housing length L		1010 mm
Storage temperature Relative humidity Mechanical specifications Housing length L Degree of protection		1010 mm IP67
Storage temperature Relative humidity Mechanical specifications Housing length L Degree of protection Connection		1010 mm
Storage temperature Relative humidity Mechanical specifications Housing length L Degree of protection		1010 mm IP67 M20 cable gland ,

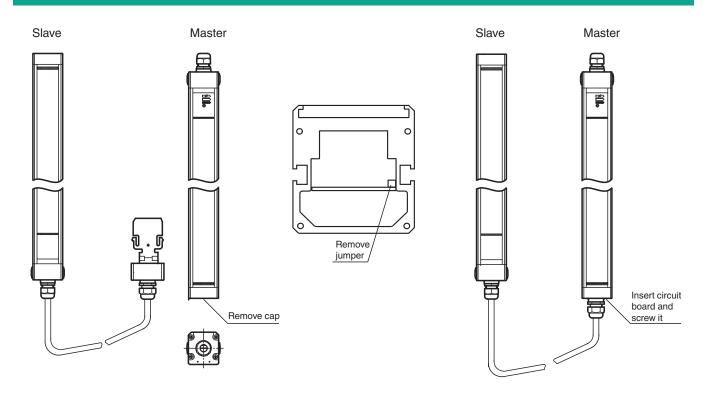


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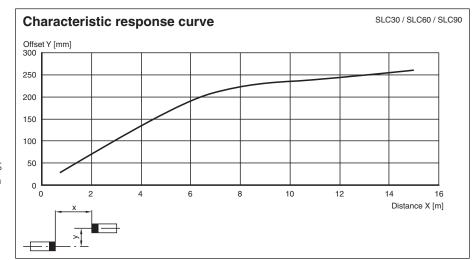
Technical Data

Optical face	Plastic pane
Mass	Per 3000 g

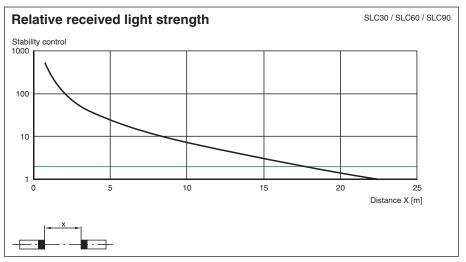
Connection

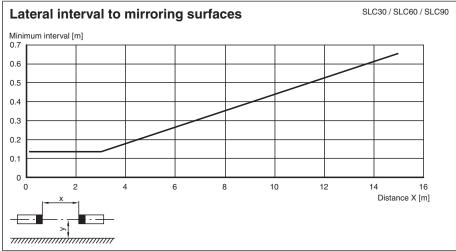


Characteristic Curve



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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	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

Accessories

PG SLC-900	Protective glass panes for SLC series

Notes

Response times of cascading units

If cascading units are set up, the response time of the entire SLC, consisting of a master and a slave, must be determined. The overall number of beams for master and slave can be determined from technical data sheets. Depending on the type of output, the resulting response time can be read from the table.

Number of beams	Response time in milliseconds	
	Semiconductor output	Relay output
8	10	30
16	10	30
24	12	32
32	14	34
40	16	36
48	18	38
56	20	40
64	22	42
72	24	44
80	26	46
88	28	48
96	30	50

Example: Mas

Master:

SLC14-300/31 32 beams

Slave:

re: SLC60-90-S<u>+ 24 beams</u>

56 beams

56 beams, OSSD relay --> response time = 40 ms.

Notes

Master slave mode

Master: SLC..-... (semiconductor)

or

SLC..-.../31 (relay)

Slave: SLC..-...-S

Using slaves makes it possible to lengthen protective fields or to form protective fields that lie in more than just one level. When you select slaves that can be connected, you should take into consideration that the maximum number of 96 light rays must not be exceeded.

There are slaves for transmitters and receivers. These may simply be connected to the master light curtain. As many as 2 slaves may be connected respectively to the transmitter and receiver unit.

Installation:

- 1. The end cap should be screwed off for the light curtain (without cable gland).
- 2. The plug-in jumper on the connectors of the printed circuit board, which is now visible, should be removed.
- 3. The slave is designed so that the cap located on the cable connector can be plugged directly onto the open end of the light curtain with the printed circuit board.
- 4. After you have screwed on the connection cap, the system is complete.

System accessories

- Mounting set SLC
- Test rods SLC14/SLC30/SLC60
- · Protective glass pieces for SLC (to protect the optically functional surface)
- · Lateral screwed connection SLC
- · Profile alignment aid
- · Laser alignment aid SLC
- Mirror for SLC (for securing hazardous areas on multiple sides)
- Ground pillar UC SLP/SLC
- · Housing for pillar

Enclosure UC SLP/SLC

Collision protector

Damping UC SLP/SLC