

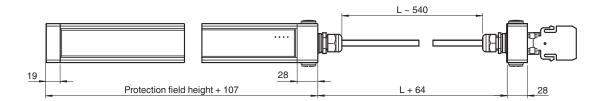
Safety light curtain SLC30-900-S



- Sensing range up to 15 m
- Resolution 30 mm (hand protection)
- Protection field height up to 1650 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)

C E

Dimensions



Technical Data

System components Emitter SLC30-900-T-S Receiver SLC30-900-R-S General specifications Effective detection range 0.2 ... 15 m Light source IRED

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

Pepperl+Fuchs Group www.pepperl-fuchs.com USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

1

Technical Data		
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		48
Operating mode		in the master
Optical resolution		30 mm
Angle of divergence		<5 °
Functional safety related parameters		
Safety Integrity Level (SIL)		SIL 3
Performance level (PL)		PLe
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	10	
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		depends of height of protective field
Functional safety		ISO 13849-1
Product standard		EN 61496-1 ; IEC 61496-2
Approvals and certificates		EN 01490-1, IEC 01490-2
		CE
CE conformity		
UL approval		cULus Listed CCC approval / marking not required for products rated ≤36 V
CCC approval TÜV approval		CCC approval / marking not required for products rated ≤36 V TÜV
		107
Ambient conditions		0 EE °C (22 121 °E)
Ambient temperature		0 55 °C (32 131 °F)
Storage temperature		-25 70 °C (-13 158 °F)
Relative humidity		max. 95 %, not condensing
Mechanical specifications		1010
Housing length L		1010 mm
Degree of protection		IP67
Connection		M20 cable gland , terminals, lead cross-section max. 1.5 mm ²
Material		
Housing		extruded aluminum profile, RAL 1021 (yellow) coated
		······································

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

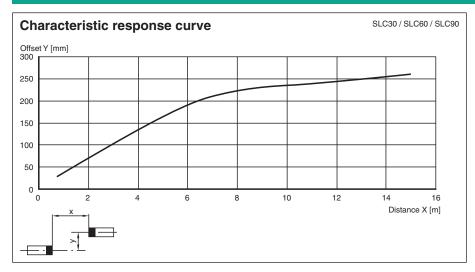
Release date: 2020-03-20 Date of issue: 2020-10-06 Filename: 117591_eng.pdf

Safety light curtain SLC30-900-S **Technical Data** Optical face Plastic pane Per 3000 g Mass Connection Slave Master Slave Master 0 0

Remove jumper /

0

Characteristic Curve



Remove cap

Release date: 2020-03-20 Date of issue: 2020-10-06 Filename: 117591_eng.pdf

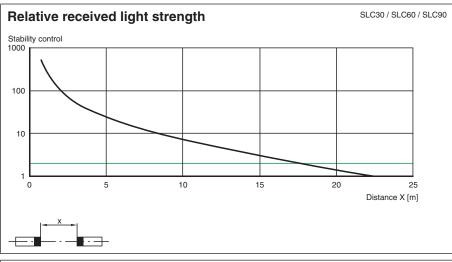
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

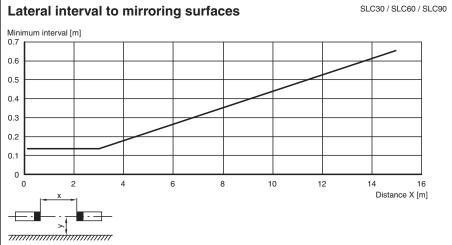
Pepperl+Fuchs Group www.pepperl-fuchs.com

3

Insert circuit board and

screw it





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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

4

Matching system components

	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
Acces	sories	

PG SLC-900	Protective glass panes for SLC series

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

5

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: Master:	SLC14-300/31 32 bea	ims	

Example:

SLC60-90-S+ 24 beams

56 beams

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

Notes

Master slave mode

Master: SLC ..-... (semiconductor) or SLC ..-.../31 (relay) Slave: SLC ...-..S

Slave:

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 ٠
- 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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

