

Safety light curtain SLC30-1050/129/151



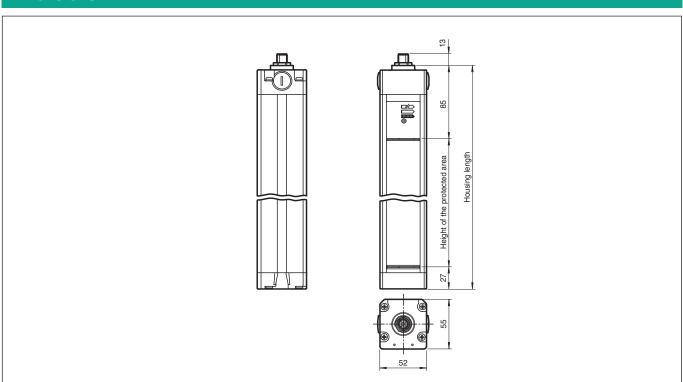
- Sensing range up to 15 m
- Resolution 30 mm (hand protection)
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and Play
- Degree of protection IP67
- Integrated function display
- Pre-fault indication
- Connection via appliance socket M12 x b1
- Safety outputs OSSD in potential-separated semiconductor
- Protective field height up to 1800 mm
- Start/Restart disable preset by Option /129







Dimensions



Technical Data

System components		
Emitter	SLC30-1050-T/92	
Receiver	SLC30-1050-R/129/151	
General specifications		
Effective detection range	0.2 15 m	
Light source	IRED	
Light type	modulated infrared light	
LED risk group labelling	exempt group	

Fechnical Data		
Tests		IEC/EN 61496
Safety type according to IEC/EN 61496		4
Width of protected area		0.2 15 m
Protection field height		1050 mm
Number of beams		56
Operating mode		can be selected with or without start/restart disable
Optical resolution		30 mm
Angle of divergence		<5 °
unctional safety related parameters		
Safety Integrity Level (SIL)		SIL3
Performance level (PL)		PL e
Category		Cat. 4
Mission Time (T _M)		20 a
PFH _d		1.5 E-8
Туре		4
ndicators/operating means		
Operation indicator		7-segment display in emitter
Diagnostics indicator		7-segment display in receiver
Function indicator		in receiver: LED red: OSSD off LED green: OSSD on LED yellow: Protected area free, system start-ready
Pre-fault indicator		LED orange
Control elements		switch for start/restart disable, transmission coding
lectrical specifications		
Operating voltage	U _B	24 V DC (-30 %/+25 %)
No-load supply current	I_0	Emitter: ≤ 100 mA receiver: ≤ 150 mA
Protection class		III
nput		
Activation current		approx. 10 mA
Activation time		0.03 1 s
Test input		Reset-input for system test (not for option /129)
Function input		Start release
Output		
Safety output		2 separated fail safe semiconductor outputs
Signal output		1 PNP, max. 100 mA for start readiness
Switching voltage		Operating voltage -2 V
Switching current		max. 0.5 A
Response time		20 ms
conformity		
Functional safety		ISO 13849-1
Product standard		EN 61496-1 ; IEC 61496-2
pprovals and certificates		
CE conformity		CE
UL approval		cULus Listed
CCC approval		CCC approval / marking not required for products rated ≤36 V
TÜV approval		TÜV
imbient conditions		
Ambient temperature		0 55 °C (32 131 °F)
Storage temperature		-25 70 °C (-13 158 °F)
Relative humidity		
		max. 95 %, not condensing
lechanical specifications		max. 95 %, not condensing
-		max. 95 %, not condensing 1160 mm



Technical Data

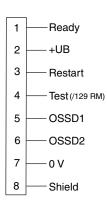
Connection	Emitter: M12 connector, 4-pin Receiver: M12 connector, 8-pin
Material	
Housing	extruded aluminum profile, RAL 1021 (yellow) coated
Optical face	Plastic pane
Mass	Per 3450 g
General information	
Note	Startup/restart disable preset

Connection Assignment

Emitter



Receiver



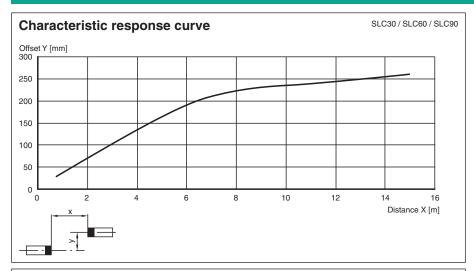
Connection Assignment

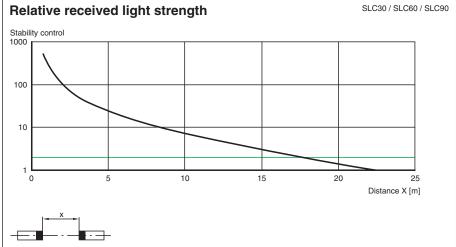
Emitter

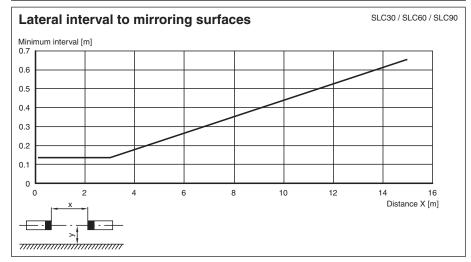












Matching system components

	SB4-OR-4XP-B-4159	Safety control unit
	SB4-OR-4XP	Safety control unit
S. Carrier	SB4-OR-4XP-B	SB4 series safety control unit with 1 optional module slot for functional enhancement

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

SB4-OR-4XP-B-B	SB4 series safety control unit with optional module slots 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-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

Accessories

PG SLC-1050	Protective glass panes for SLC series

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