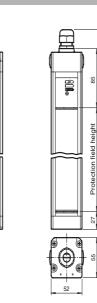
Safety light curtain





Receiver:

8

Housing

S1/S2: Startup/restart interlock S3:

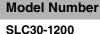
> n.c Startup readiness (input

Electrical connection

Not pla

x2:5

Emitter:



CE

with 2 separate fail-safe semiconductor outputs

Features

- ٠ Sensing range up to 15 m
- Resolution 30 mm (hand protection) ٠
- Protective field height up to 1800 mm
- Self-monitoring (type 4 according to • IEC/EN 61496-1)
- Master/Slave detection, Plug and ٠ Play
- ٠ Start/Restart disable
- Degree of protection IP67 •
- Integrated function display .
- Pre-fault indication •
- Safety outputs OSSD in potential-se-• parated semiconductor design or with monitored, compelled connection NC-contacts
- Optional with relay monitor (Option 129)
- Optional with ATEX certificates for • zone 2 and 22 and degree of protection IP66 (Option 133)

Accessories

PG SLC-1200

Protective glass panes for SLC series

BA SLC

laser alignment aid for safety light cutrtains series SLC

X2 S1: Beam coding Beam coding S1 S1 S2 S3 Termina Receiver SLC...-R (semiconductor output Receiver SLC...-R/129 (Relay monitor) Emitte X1:1 X1:2 X1:3 Functional earth Test (input) 0 V OSSD Functional earth Functional ea Relay monitor 0 V OSSD 24 V OSSD OSSD2 (output) 24 V OSSD X1:4 X1:5 OSSD2 (output) X1:6 OSSD1 (output OSSD1 (output X1:7 X1:8 X2:1 X2:2 X2:3 X2:4 0 V AC/DC 24 V AC/DC 0 V DC 24 V DC 0 V DC 24 V DC Start release (c Status OSSD (c Start release (output) Status OSSD (output)

n.c

Startup readiness (input

417956_eng.xml Date of issue: 2017-12-11 Release date: 2017-12-11 10:37

> 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 4411 fa-info@de.pepperl-fuchs.com

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



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SLC30-1200

Technical data		
System components		
Emitter	SLC30-1200-T	
Receiver	SLC30-1200-R	
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/E		
Width of protected area	0.2 15 m	
Protection field height	1200 mm	
Number of beams	64	
Operating mode	can be selected with or without start/restart disable	
Optical resolution	30 mm	
Angle of divergence	<5 °	
Functional safety related para		
Safety Integrity Level (SIL)	SIL 3	
Performance level (PL)	PL e	
Category	Cat. 4	
Mission Time (T _M)	20 a	
PFH _d	1.5 E-8	
Туре	4	
Indicators/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	
Electrical specifications		
Operating voltage	U _B 24 V DC (-30 %/+25 %)	
No-load supply current	I_0 Emitter: \leq 100 mA receiver: \leq 150 mA	
Protection class		
Input		
Activation current	approx. 10 mA	
Activation time	0.03 1 s	
Test input	Reset-input for system test	
Function input	Start release	
Output		
Safety output	2 separated fail safe semiconductor outputs	
Signal output	1 PNP each, max. 100 mA for start readiness and OSSD status	
Switching voltage	Operating voltage -2 V	
Switching current	max. 0.5 A	
Response time	22 ms	
Conformity		
•	150 12940 1	
Functional safety	ISO 13849-1	
Product standard	EN 61496-1 · IEC 61496-2	
	EN 61496-1 ; IEC 61496-2	
Ambient conditions		
Ambient temperature	0 55 °C (32 131 °F)	
Storage temperature	-25 70 °C (-13 158 °F)	
Relative humidity	max. 95 %, not condensing	
Mechanical specifications		
Housing length L	1310 mm	
Degree of protection	IP67	
Connection	M20 cable gland ,	
	terminal compartment with screw terminals, lead cross-section max. 1.5 mm ²	
Connection options	Further electrical connection options on request: Connector M12, 8-pin	
	Connector DIN 43 651 Hirschmann, 6-pin+PE Connector M26x11 Hirschmann, 11-pin+PE	
Material		
Housing	extruded aluminum profile, RAL 1021 (yellow) coated	
Optical face	Plastic pane	
Mass	Per 3900 g	
Approvals and certificates		
CE conformity	CE	
UL approval	cULus Listed	
	CCC approval / marking not required for products rated \leq 36 V	
CCC approval	Soo approvary marking not required for producio rated 200 V	
CCC approval TÜV approval	TÜV	

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

Pepperl+Fuchs Group
USA: +1 330 486 0001
General General

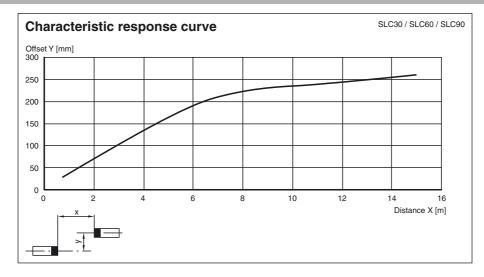
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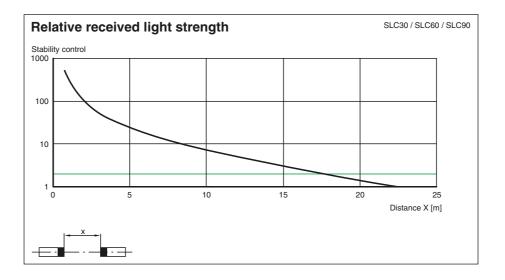
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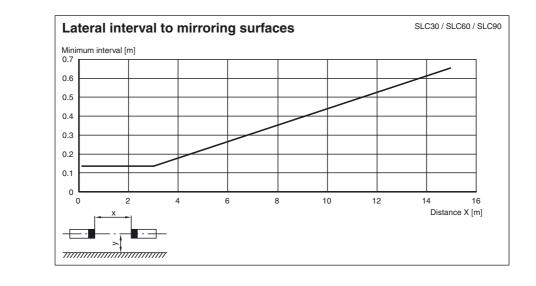


2

Curves/Diagrams







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:

- The end cap should be screwed off for the light curtain (without cable gland). 1
- 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



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