Safety light curtain

SLC30-1200/129/151





Model Number

SLC30-1200/129/151

with 2 separate fail-safe semiconductor outputs

Features

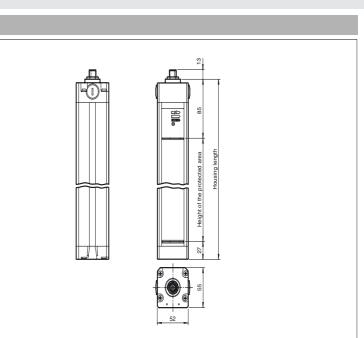
- ٠ Sensing range up to 15 m
- Resolution 30 mm (hand protection) ٠
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and • Play
- Degree of protection IP67 ٠
- Integrated function display ٠
- Pre-fault indication •
- Protection field height up to 1200 mm .
- Connection via appliance socket ٠ M12 x b1
- Safety outputs OSSD in potential-separated semiconductor version
- Start/Restart disable preset by Opti-٠ on /129

Accessories

PG SLC-1200 Protective glass panes for SLC series

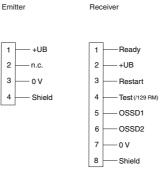
BA SLC

laser alignment aid for safety light cutrtains series SLC



Electrical connection

Dimensions



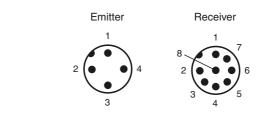
Pinout

1

2

з

4



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

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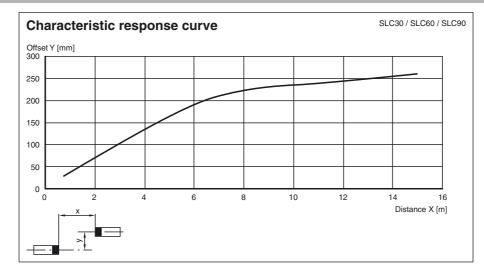
Technical data		
System components		
Emitter	SLC30-1200-T/92	
Receiver	SLC30-1200-R/129/151	
General specifications		
Effective detection range	0.2 15 m	
Light source	IRED	
Light type	modulated infrared light	
LED risk group labelling	exempt group	
Tests	IEC/EN 61496	
Safety type according to IEC/EN 6149		
Width of protected area	0.2 15 m	
Protection field height	1200 mm	
Number of beams		
Operating mode	can be selected with or without start/restart disable	
Optical resolution	30 mm <5 °	
Angle of divergence	< 5	
Functional safety related parameters		
Safety Integrity Level (SIL) Performance level (PL)	SIL 3 PL e	
Category	Cat. 4	
Mission Time (T _M)	20 a	
PFH _d	15 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	
Pre-fault indicator	LED yellow: Protected area free, system start-ready	
Control elements	LED orange switch for start/restart disable, transmission coding	
	switch for statutestatt disable, transmission county	
Electrical specifications Operating voltage U _B	24 V DC (-30 %/+25 %)	
Operating voltage U _B No-load supply current I ₀	Emitter: ≤ 100 mA receiver: ≤ 150 mA	
Protection class		
	III	
Input 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	22 ms	
Conformity		
Functional safety	ISO 13849-1	
,		
Product standard	EN 61496-1 ; IEC 61496-2	
Ambient conditions		
Ambient temperature	0 55 °C (32 131 °F)	
Storage temperature	-25 70 °C (-13 158 °F)	1
Relative humidity	max. 95 %, not condensing	
Mechanical specifications		:
Housing length L	1310 mm	
Degree of protection	IP67	ľ
Connection	Emitter: M12 connector, 4-pin Receiver: M12 connector, 8-pin	3
Material		
Housing	extruded aluminum profile, RAL 1021 (yellow) coated	
Optical face	Plastic pane	
Mass	Per 3900 g	;
General information		
Note	Startup/restart disable preset	_ (
Approvals and certificates		
CE conformity	CE	1
UL approval	cULus Listed	
	CCC approval / marking not required for products rated ≤36 V	ļ
TÜV approval	TÜV	2

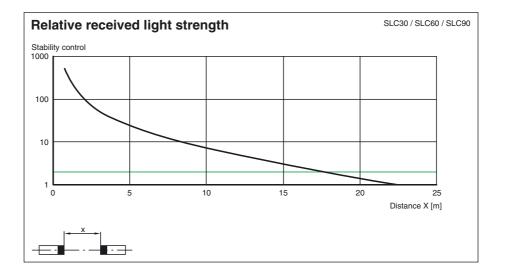
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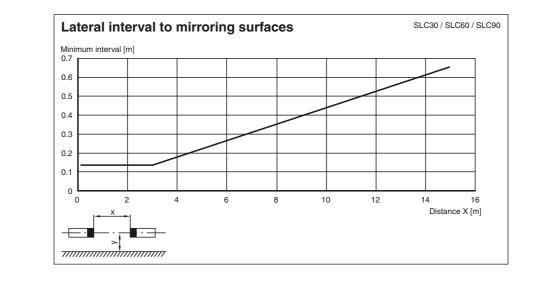
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Curves/Diagrams







Notes

Master slave mode

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Master:	SLC (semiconductor)
	or
	SLC/31 (relay)
Slave:	SLCS

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.
- The slave is designed so that the cap located on the cable connector can be plugged directly onto the open end of the light 3 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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