Safety light curtain

SLC30-300/151





Model Number

SLC30-300/151

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
- Start/Restart disable ٠
- Degree of protection IP67 •
- Integrated function display •
- Pre-fault indication .
- Optional with relay monitor (Option ٠ 129)
- Connection via appliance socket M12 x b1
- Safety outputs OSSD in potential-se-• parated semiconductor version
- Protective field height up to 1800 mm •

Accessories

PG SLC-300

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Protective glass panes for SLC series

BA SLC

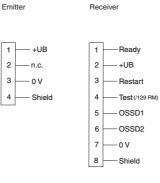
laser alignment aid for safety light cutrtains series SLC

13 58 Height of the protected area

22

Electrical connection

Dimensions



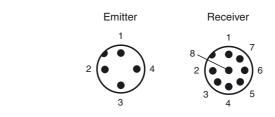
Pinout

1

2

з

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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SLC30-300/151

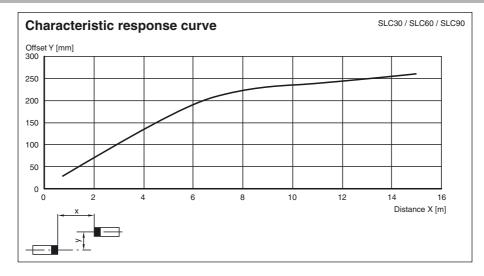
Technical data		
System components		
Emitter	SLC30-300-T/92	
Receiver	SLC30-300-R/151	
General specifications		
Effective detection range	0.2 15 m	
Light source	IRED	
Light type	modulated infrared light	
LED risk group labelling Tests	exempt group IEC/EN 61496	
Safety type according to IEC/EN		
Width of protected area	0.2 15 m	
Protection field height	300 mm	
Number of beams	16	
Operating mode	can be selected with or without start/restart disable	
Optical resolution	30 mm	
Angle of divergence	< 5 °	
Functional safety related parameter	neters	
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: ≤ 100 mA receiver: ≤ 150 mA	
Protection class	11	
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	O concepted feil cofe comises ductor outputs	
Safety output Signal output	2 separated fail safe semiconductor outputs 1 PNP, max. 100 mA for start readiness	
Switching voltage	Operating voltage -2 V	
Switching current	max. 0.5 A	
Response time	10 ms	
Conformity		
Functional safety	ISO 13849-1	
T anotional baloty		
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)	
Relative humidity	max. 95 %, not condensing	
Mechanical specifications		
Housing length L	410 mm	
Degree of protection	IP67	
Connection	Emitter: M12 connector, 4-pin Receiver: M12 connector, 8-pin	
Material		
	extruded aluminum profile, RAL 1021 (yellow) coated	
Housing	Plastic pane	
Optical face	·	
Optical face Mass	Per 1200 g	
Optical face	Per 1200 g	
Optical face Mass	Per 1200 g CE	
Optical face Mass Approvals and certificates CE conformity UL approval	Per 1200 g	
Optical face Mass Approvals and certificates CE conformity	Per 1200 g CE	

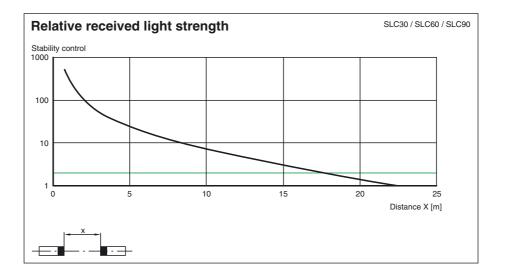
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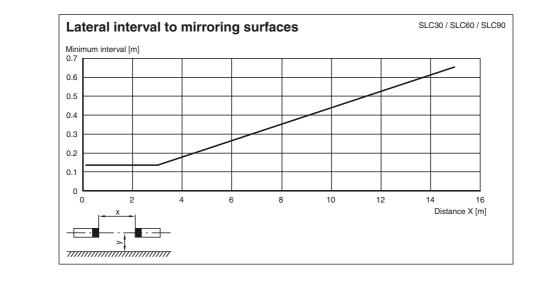
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Curves/Diagrams







Notes

Master slave mode



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

SLC ..-...-S

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

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:

- 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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