Safety light curtain





Model Number

SLC30-600/31

with 2 relay outputs with two force-guided normally open contacts

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)

Accessories

PG SLC-600

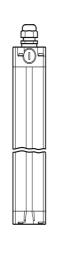
Protective glass panes for SLC series

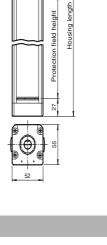
BA SLC

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laser alignment aid for safety light cutrtains series SLC





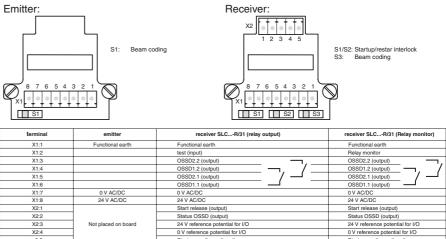
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Electrical connection

x2:5

Dimensions



Startup readiness (input)



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Startup readiness (input)

SLC30-600/31

Technical data		
System components		
Emitter	SLC30-600-T	
Receiver	SLC30-600-R/31	
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	600 mm	
Number of beams	32	
	can be selected with or without start/restart disable	
Operating mode		
Optical resolution	30 mm	
Angle of divergence	< 5 °	
Functional safety related para	meters	
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	
ndicators/operating means		
Operation indicator	7-segment display in emitter	
Diagnostics indicator	7-segment display in receiver	
Function indicator	in receiver:	
Function indicator	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 %) / 24 V AC (-20 %/+10 %)	
	-	
No-load supply current	0	
Protection class	II	
nput		
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 relay outputs, force-guided NO-contact	
Signal output	1 PNP each, max. 100 mA for start readiness and OSSD status	
Switching voltage	50 V	
	max. 2 A	
Switching current		
Switching power	100 VA	
Response time	34 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)	
Relative humidity	max. 95 %, not condensing	
-	maxi ou lo, not ounderlang	
Mechanical specifications	710 mm	
Housing length L	710 mm	
Degree of protection Connection	IP67 M20 cable gland ,	
Connection	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 2100 g	
Approvals and certificates	-	
CE conformity	CE	
•		
UL approval	cULus Listed	
CCC approval	CCC approval / marking not required for products rated ≤36 V TÜV	
TÜV approval		

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

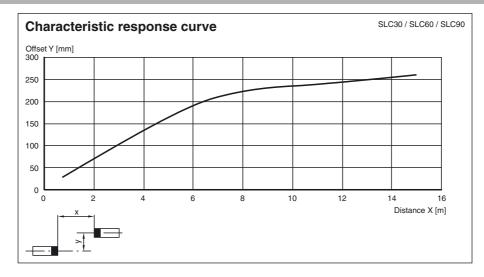
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General General

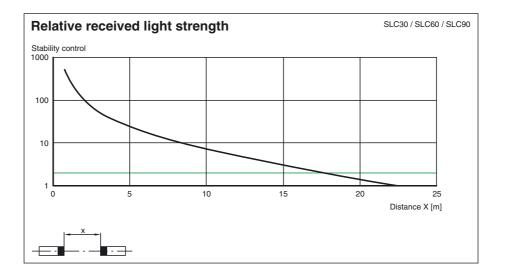
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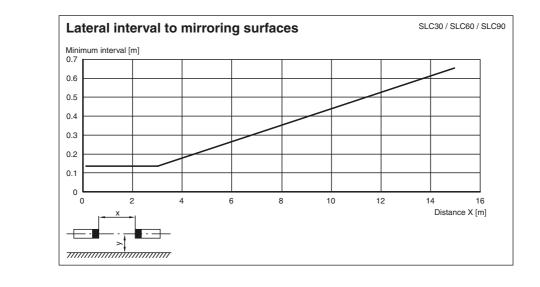
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Curves/Diagrams







Notes

Master slave mode

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