Safety light curtain





Model Number

SLC60-600

with 2 separate fail-safe semiconductor outputs

Features

- ٠ Sensing range up to 15 m
- Resolution 60 mm 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
- Start/Restart disable ٠
- 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

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PG SLC-600

Protective glass panes for SLC series

BA SLC

laser alignment aid for safety light cutrtains series SLC

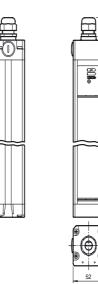
Dimensions

Electrical connection

S1:

Beam coding

Emitter:



85

Protection field height Housing

5

S1/S2: Startup/restart interlock S3: Beam coding

Terminal	Emitter	Receiver SLCR (semiconductor output)	Receiver SLCR/129 (Relay monitor
X1:1	Functional earth	Functional earth	Functional earth
X1:2		Test (input)	Relay monitor
X1:3		0 V OSSD	0 V OSSD
X1:4		24 V OSSD	24 V OSSD
X1:5		OSSD2 (output)	OSSD2 (output)
X1:6		OSSD1 (output)	OSSD1 (output)
X1:7	0 V AC/DC	0 V DC	0 V DC
X1:8	24 V AC/DC	24 V DC	24 V DC
X2:1		Start release (output)	Start release (output)
X2:2		Status OSSD (output)	Status OSSD (output)
X2:3	Not placed on board	n.c.	n.c.
X2:4		n.c.	n.c.
x2:5		Startup readiness (input)	Startup readiness (input)

Receiver: Х2



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

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



SLC60-600

Technical data			
System components			
Emitter		SLC60-600-T	
Receiver		SLC60-600-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	EN 61496	4	
Width of protected area		0.2 15 m	
Protection field height		600 mm	
Number of beams		16	
Operating mode		can be selected with or without start/restart disable	
Optical resolution		60 mm	
Angle of divergence		<5 °	
Functional safety related para	ameters		
Safety Integrity Level (SIL)		SIL 3	
Performance level (PL)		PL e Cat. 4	
Category		Cal. 4 20 a	
Mission Time (T _M) PFH _d		20 a 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	Ι _Ο	Emitter: ≤ 100 mA receiver: ≤ 150 mA	
Protection class			
Input			
Activation current		approx. 10 mA	
Activation time		0.03 1 s	
Test input		Reset-input for system test Start release	
Function input		Start release	
Output Safety output		0 concreted foil cofe comiconductor outputs	
Signal output		2 separated fail safe semiconductor outputs 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		10 ms	
Conformity			
Functional safety		ISO 13849-1	
r unotional salety			
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		710 mm	
Degree of protection		IP67	
Connection		M20 cable gland , 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	
000 appioval			
TÜV approval		ΤÜV	

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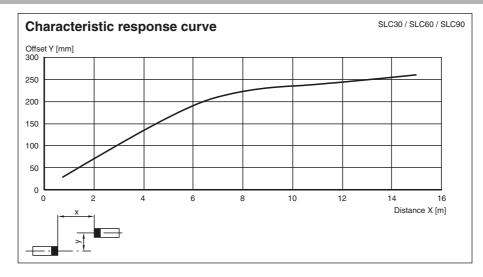
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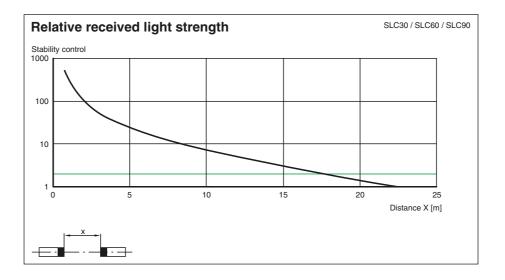
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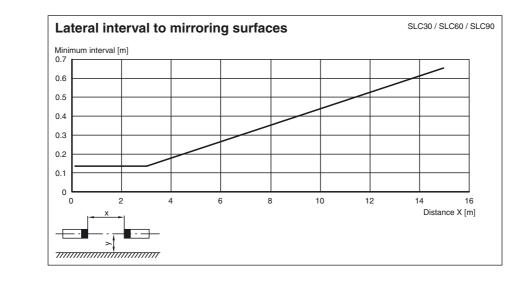
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 General General

Curves/Diagrams







Notes

Master slave mode



Master:

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

SLC ..-...-S

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

