Safety light curtain





Model Number

SLC60-300

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
- ٠ 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-300

Protective glass panes for SLC series

BA SLC

laser alignment aid for safety light cutrtains series SLC

Dimensions

Electrical connection

[•]•]•]•]•]•]

S1:

Beam coding

Emitter:



Х2

Receiver:

85

> Protection field height Housing

5

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

Terminal	Emitter	Receiver SLCR (semiconductor output)	Receiver SLCR/129 (Relay m
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	7	n.c.	n.c.
x2:5	7	Startup readiness (input)	Startup readiness (input)



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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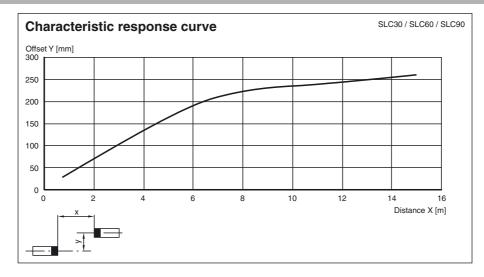
Technical data	
System components	
Emitter	SLC60-300-T
Receiver	SLC60-300-R
General specifications	
Effective detection range	0.2 15 m
Light source	IRED
Light type	modulated infrared light
LED risk group labelling Tests	exempt group IEC/EN 61496
Safety type according to IEC/EN 614	
Width of protected area	0.2 15 m
Protection field height	300 mm
Number of beams	8
Operating mode	can be selected with or without start/restart disable
Optical resolution Angle of divergence	60 mm <5 °
Functional safety related parameter	
Safety Integrity Level (SIL)	SIL 3
Performance level (PL)	PLe
Category	Cat. 4
Mission Time (T _M)	20 a
PFH _d	1.5 E-8
Туре	4
Indicators/operating means	7 ocement display in amittar
Operation indicator Diagnostics indicator	7-segment display in emitter 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	
Protection class	II
Input	
Activation current Activation time	approx. 10 mA 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 Response time	max. 0.5 A 10 ms
Conformity	10 1115
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 Relative humidity	-25 70 °C (-13 158 °F) max. 95 %, not condensing
Mechanical specifications	max. 35 %, not condensing
Housing length L	410 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 1200 g
Approvals and certificates	
CE conformity UL approval	CE cULus Listed
CCC approval	CCC approval / marking not required for products rated ≤36 V
TÜV approval	

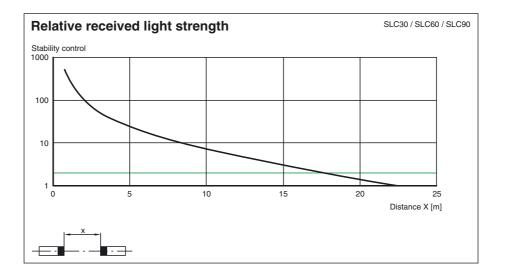


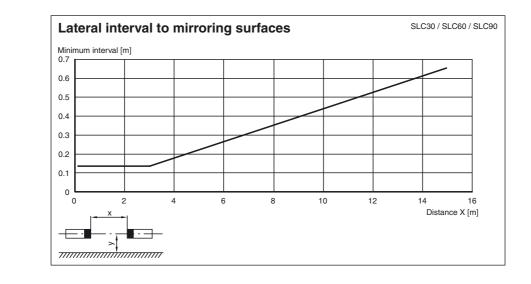
Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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 General General

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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