Safety light curtain

SLC30-900/129





Model Number

SLC30-900/129

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
- Protection degree IP67 ٠
- Integrated function display ٠
- Pre-fault indication •
- Safety outputs OSSD in potential-se-• parated semiconductor version
- Protective field height up to 1800 mm •
- Start/Restart disable preset by Opti-• on /129
- · Integrated relay monitor

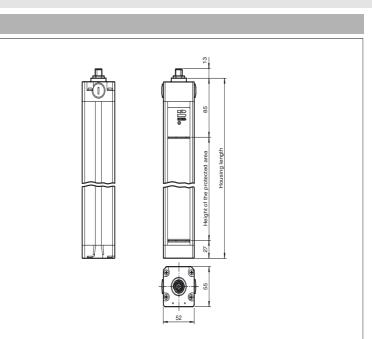
Accessories

PG SLC-900

Protective glass panes for SLC series

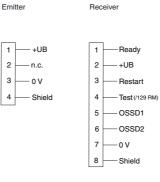
BA SLC

laser alignment aid for safety light cutrtains series SLC



Electrical connection

Dimensions



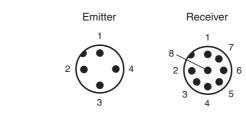
Pinout

1

2

з

4





Subject to modifications without notice Pepperl+Fuchs Group

www.pepperl-fuchs.com

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776-4411 fa-info@pepperl-fuchs.com

Copyright Pepperl+Fuchs Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

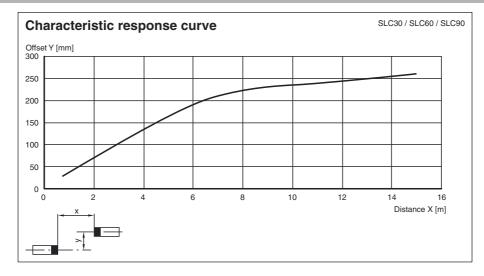


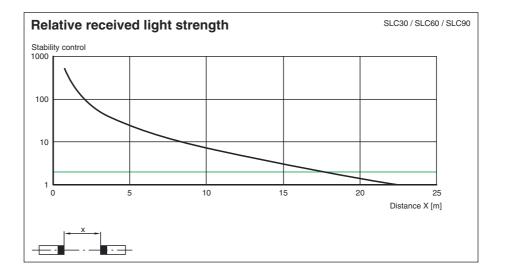
1

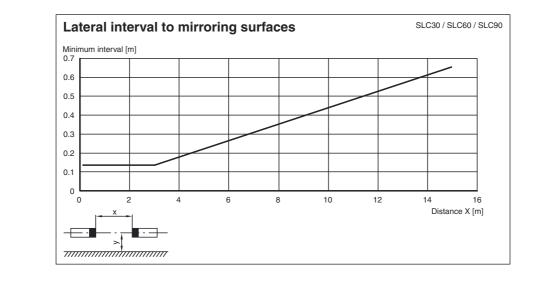
SLC30-900/129

General specifications Effective detection range Light source	0.2 15 m
•	
Light source	
	IRED
Light type	modulated infrared light
Approvals	TÜV, cULus
Tests	IEC/EN 61496
Safety type according to IEC/EN 61496	4
Marking	CE
Width of protected area	0.2 15 m
Protection field height	900 mm
Number of beams	48
Operating mode	Startup/restart disable preset with Relay monitor (preset)
Optical resolution	30 mm
•	
Angle of divergence	< 5 °
Functional safety related parameters	
Safety Integrity Level (SIL)	SIL 3
Performance level (PL)	PL e
Category	Cat. 4
• •	20 a
Mission Time (T _M)	
PFH _d	8.86 E-9
Туре	4
Indicators/operating means	
Operating display	7-segment display in emitter
Diagnostics display	7-segment display in receiver
	in receiver:
Function display	In receiver: LED red: OSSD off LED green: OSSD on LED yellow: Protected area free, system start-ready
Pre-fault indication	LED orange
Controls	
	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	
	···
Input	
Activation current	approx. 10 mA
Activation time	0.03 1 s
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	18 ms
•	
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	
•	1010 mm
Housing length L	1010 mm
Protection degree	IP67
Connection	Emitter: terminal compartment with screw terminals, lead cross-section max. 1.5 mm ²
	Receiver: terminal compartment with screw terminals, lead cross-section max. 1.5 mm ²
Material	
Housing	extruded aluminum profile, RAL 1021 (yellow) coated
Optical face	Plastic pane
Mass	
	Per 3000 g
General information	
System components	
Emitter	SLC30-900-T
Receiver	SLC30-900-R / 129
Compliance with standards and directi-	
ves	
Directive conformity	
	EN ICO 12940 1/2009 EN 61406 1/2004/A1/2009
Machinery Directive 2006/42/EC	EN ISO 13849-1:2008 EN 61496-1:2004/A1:2008
EMC Directive 2004/108/EC	EN 61000-6-4:2007 + A1:2011
Standard conformity	
Standards	IEC 61496-2:2006 EN 50178:1997
Approvals and certificates	
	CE
CE conformity	
UL approval	cULus Listed
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approva
TÜV approval	TÜV

Curves/Diagrams







Notes

Master slave mode

Subject to modifications without notice Pepperl+Fuchs Group www.pepperl-fuchs.com

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com Germany: +49 621 776-4411 fa-info@pepperl-fuchs.com

Copyright Pepperl+Fuchs Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



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:

- 1 The end cap should be screwed off for the light curtain (without cable gland).
- 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

