Safety light curtain

Dimensions



8

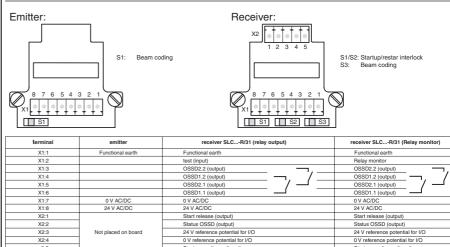
85

Protection field height Housing

27

Electrical connection

x2:5



Startup readiness (input)

Model Number

CE

SLC30-1800/31/130

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
- Very short response time
- 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-1800

Protective glass panes for SLC series

BA SLC

Pepperl+Fuchs Group

laser alignment aid for safety light cutrtains series SLC

188714_eng.xml Date of issue: 2015-04-22 Release date: 2015-04-22 15:40

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

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Startup readiness (input)

date:

Release

Technical data System components Emitter SLC30-1800-T/130 SI C30-1800-B/31/130 Receiver **General specifications** Effective detection range 0.2 ... 15 m IRFD Light source Light type modulated infrared light LED risk group labelling exempt group IEC/EN 61496 Tests Safety type according to IEC/EN 61496 Width of protected area 0.2 ... 15 m Protection field height 1800 mm Number of beams 96 Operating mode can be selected with or without start/restart disable Optical resolution 30 mm Angle of divergence < 5 ° Functional safety related parameters Safety Integrity Level (SIL) SIL 3 PL e Performance level (PL) Category Cat. 4 Mission Time (T_M) 20 a 1.5 E-8 PFH_d 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** 24 V DC (-30 %/+25 %) / 24 V AC (-20 %/+10 %) Operating voltage UB No-load supply current Emitter: ≤ 100 mA receiver: ≤ 150 mA I0 Protection class ш Input Activation current approx. 10 mA Activation time 0.03 ... 1 s Test input Reset-input for system test Function input Start release Output 2 relay outputs, force-guided NO-contact Safety output 1 PNP each, max. 100 mA for start readiness and OSSD status Signal output 50 V Switching voltage Switching current max. 2 A 100 VA Switching power 39 ms Response time Ambient conditions Ambient temperature 0 ... 55 °C (32 ... 131 °F) -25 ... 70 °C (-13 ... 158 °F) Storage temperature Relative humidity max. 95 %, not condensing Mechanical specifications 188714_eng.xml Housing length L 1910 mm Degree of protection IP67 M20 cable gland Connection terminal compartment with screw terminals, lead cross-section max. 1.5 mm² Connection options Further electrical connection options on request: Connector M12, 8-pin Date of issue: 2015-04-22 Connector DIN 43 651 Hirschmann, 6-pin+PE Connector M26x11 Hirschmann, 11-pin+PE Material extruded aluminum profile, RAL 1021 (yellow) coated Housing Optical face Plastic pane Per 5700 g Mass Compliance with standards and directives 2015-04-22 15:40 Directive conformity EN ISO 13849-1:2008 ; EN 61496-1:2013 Machinery Directive 2006/42/EC EMC Directive 2004/108/EC EN 61000-6-4:2007+A1:2011 Standard conformity IEC 61496-2:2013 Standards Approvals and certificates CE conformity CE Refer to "General Notes Relating to Pepperl+Fuchs Product Information" **PEPPERL+FUCHS** Germany: +49 621 776 4411 Singapore: +65 6779 9091 Pepperl+Fuchs Group USA: +1 330 486 0001

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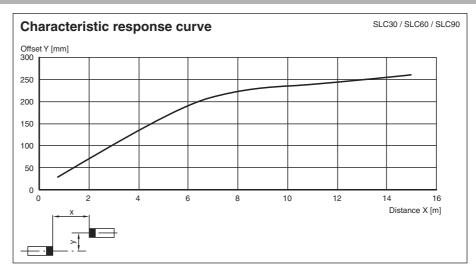
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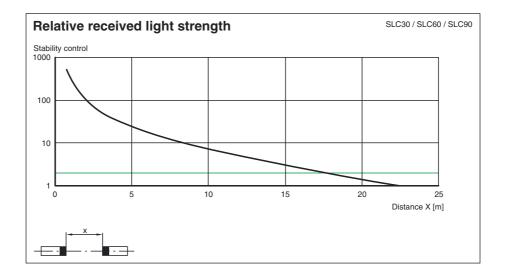
Safety light curtain

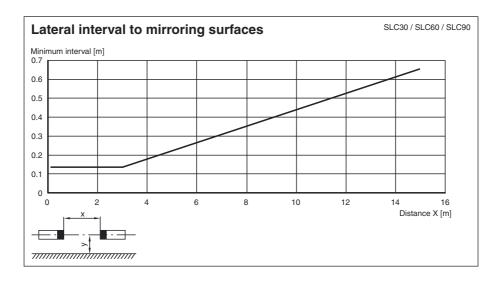
UL approval	
CCC approval	
TÜV approval	

cULus Listed CCC approval / marking not required for products rated ≤36 V ΤÜV

Curves/Diagrams







Note

Master-Slave operation



Safety light curtain

SLC30-1800/31/130

Master:	SLC (semiconductor)
	or SLC/31 (relay)
Slave:	SLCS

The use of slaves allows both the protection fields to be extended and protection fields to be created that do not all exist at a single level. When deciding which slaves to connect, remember that the total maximum of 96 beams must not be exceeded. Up to 192 beams are possible if the /130 option is selected.

Slaves exist for the transmitter and the receiver. These simply need to be connected to the master light curtain. Up to two slaves can be connected to both the transmitter and receiving units. Only one slave can be connected if the /130 option is selected.

Installation:

- The end cap (no cable gland) on the light curtain is unscrewed and removed. 1
- 2 The plug-in jumper on the connectors of the now visible PCB is removed.
- 3 The slave is designed in such a way that the cap and PCB on the connecting cable plug directly onto the open end of the light curtain.
- 4 Once the end cap has been screwed on, the system is complete.

System accessories

- Mounting set SLC •
- Test rods SLC14/SLC30/SLC60
- Protection glass for SLC (to protect the optical surface)
- Side cable gland SLC
- Profile alignment tool
- Beam alignment tool SLC
- Mirror for SLC (to protect danger areas on more than one side)
- Stands UC SLP/SLC
- Enclosure for stands Enclosure UC SLP/SLC
- Start protection Damping UC SLP/SLC

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