









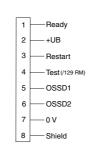
Electrical connection

Dimensions

Emitter

Receiver





Model Number

SLC30-450/129/151

with 2 separate fail-safe semiconductor outputs

Features

- Sensing range up to 15 m
- Resolution 30 mm (hand protection)
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and Play
- Degree of protection IP67
- Integrated function display
- Pre-fault indication
- Connection via appliance socket M12 x b1
- Safety outputs OSSD in potential-separated semiconductor version
- Protective field height up to 1800 mm
- Start/Restart disable preset by Option /129

Accessories

PG SLC-450

Protective glass panes for SLC series

BA SLC

laser alignment aid for safety light cutrtains series SLC

Pinout





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System components

Emitter SLC30-450-T/92 SLC30-450-R/129/151 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

0.2 ... 15 m Width of protected area Protection field height 450 mm Number of beams

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 Type 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 %) Operating voltage U_B

No-load supply current 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 (not for option /129)

Function input Start release

Output

2 separated fail safe semiconductor outputs Safety output 1 PNP, max. 100 mA for start readiness Signal output

Operating voltage -2 V Switching voltage

Switching current max. 0.5 A Response time 12 ms

Conformity

ISO 13849-1 Functional safety

Product standard EN 61496-1; IEC 61496-2

Ambient conditions

0 ... 55 °C (32 ... 131 °F) Ambient temperature -25 ... 70 °C (-13 ... 158 °F) Storage temperature Relative humidity max. 95 %, not condensing

Mechanical specifications

Housing length L 560 mm Degree of protection IP67

Connection Emitter: M12 connector, 4-pin Receiver: M12 connector, 8-pin

Material

Housing extruded aluminum profile, RAL 1021 (yellow) coated

Plastic pane Optical face Mass Per 1650 g

General information

Note Startup/restart disable preset

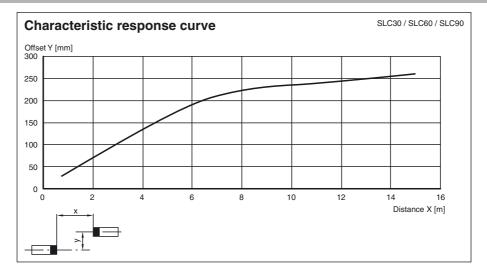
Approvals and certificates

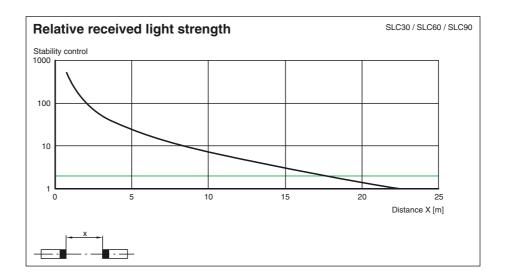
CE conformity **UL** approval cULus Listed

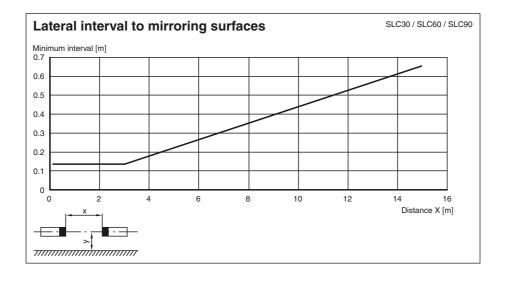
CCC approval CCC approval / marking not required for products rated ≤36 V

TÜV approval ΤÜV 199744_eng.xml

Date of issue: 2017-12-11







Notes

Master slave mode

www.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