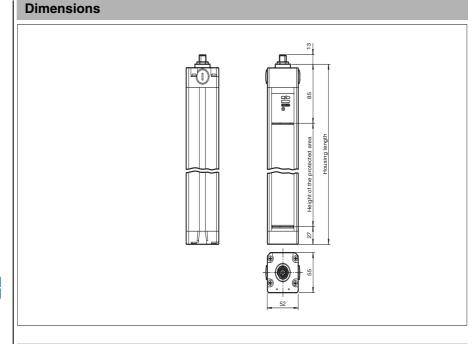


# 



## **Model Number**

#### SLC30-1800/129/151

with 2 separate fail-safe semiconductor outputs

#### **Features**

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

# **Accessories**

# **PG SLC-1800**

Protective glass panes for SLC series

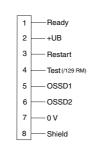
#### **BASLC**

laser alignment aid for safety light cutrtains series SLC

# **Electrical connection**

Emitter Receiver





## **Pinout**





Receiver

www.pepperl-fuchs.com

# **Technical data**

General specifications

Effective detection range 0.2 ... 15 m IRFD Light source

modulated infrared light Light type

Approvals TÜV, cULus

Tests IEC/EN 61496 Safety type according to IEC/EN 61496

CE Marking Width of protected area 0.2 ... 15 m Protection field height 1800 mm Number of beams

can be selected with or without start/restart disable Operating mode

Optical resolution Angle of divergence < 5 °

Functional safety related parameters

Safety Integrity Level (SIL) SIL 3 Performance level (PL) PL e Cat. 4 Category Mission Time (T<sub>M</sub>) 20 a 1.35 E-8  $PFH_d$ Type

Indicators/operating means

Operating display 7-segment display in emitter Diagnostics display 7-segment display 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

Controls switch for start/restart disable, transmission coding

**Electrical specifications** 

24 V DC (-30 %/+25 %) Operating voltage  $\mathsf{U}_\mathsf{B}$ 

Emitter: ≤ 100 mA receiver: ≤ 150 mA No-load supply current I<sub>0</sub>

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

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 30 ms

**Ambient conditions** 

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

Mechanical specifications

Housing length L 1910 mm Protection degree

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

Material

extruded aluminum profile, RAL 1021 (yellow) coated Housing

Optical face Plastic pane Mass Per 5700 g

General information

System components

Emitter SLC30-1800-T / 92

Receive SLC30-1800-R / 129 / 151 Startup/restart disable preset

Compliance with standards and directi-

ves

Directive conformity

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 conformity CE **UL** approval cULus Listed

Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval. CCC approval

TÜV approval

PEPPERL+FUCHS

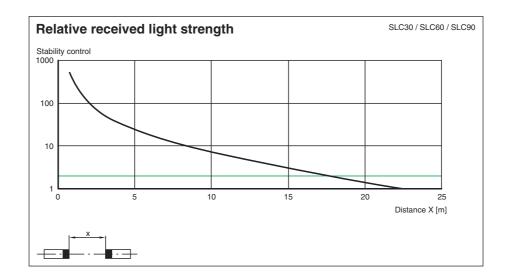
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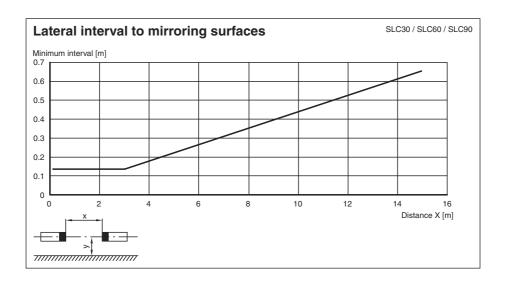
2012-08-01

Date of issue:

11:56

2012-08-01





## **Notes**

#### Master slave mode

USA: +1 330 486 0001

fa-info@us.pepperl-fuchs.com

3

Master: SLC..-... (semiconductor)

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.
- 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.
- 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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Singapore: +65 6779 9091

fa-info@sg.pepperl-fuchs.com