

Model Number

SLC30-900/129

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
- Safety outputs OSSD in potential-separated semiconductor version
- Protective field height up to 1800 mm
- Start/Restart disable preset by Option /129
- · Integrated relay monitor

Accessories

PG SLC-900

Protective glass panes for SLC series

BA SLC

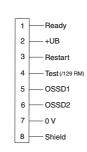
laser alignment aid for safety light cutrtains series SLC

Electrical connection

Emitter

Dimensions





Receiver

Pinout





Receiver

Technical data

System components

Emitter SLC30-900-T SLC30-900-R/129 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 900 mm Number of beams

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 Mission Time (T_M) 20 a PFH_d 1.03 E-8 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 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 Function input Start release

Output

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

18 ms

Switching voltage Operating voltage -2 V Switching current max. 0.5 A

Response time Conformity

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 -25 ... 70 °C (-13 ... 158 °F) max. 95 %, not condensing Relative humidity

Mechanical specifications

Housing length L Degree of protection IP67

Emitter: terminal compartment with screw terminals, lead cross-section max. 1.5 mm² Connection

Receiver: terminal compartment with screw terminals, lead cross-section max. 1.5 mm²

Material

extruded aluminum profile, RAL 1021 (yellow) coated Housing

Optical face Plastic pane Mass Per 3000 g

Approvals and certificates

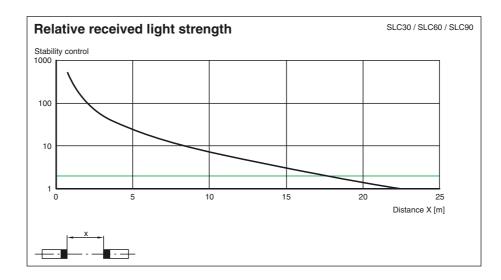
CE conformity CE cULus Listed **UL** approval

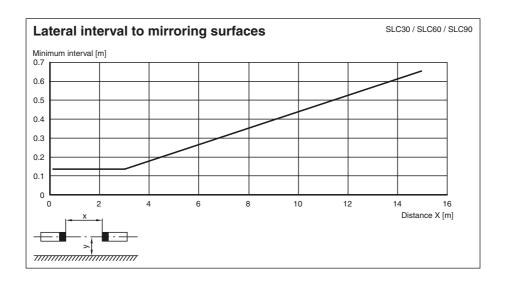
CCC approval CCC approval / marking not required for products rated ≤36 V

TÜV approval

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Notes

Master slave mode

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