







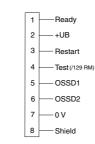


# Electrical connection

**Dimensions** 

Emitter





Receiver

## **Model Number**

## SLC30-150/151

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
- Start/Restart disable
- Degree of protection IP67
- Integrated function display
- Pre-fault indication
- Optional with relay monitor (Option 129)
- Connection via appliance socket M12 x b1
- Safety outputs OSSD in potential-separated semiconductor version
- Protective field height up to 1800 mm

## **Accessories**

## **BA SLC**

laser alignment aid for safety light cutrtains series SLC

## Pinout





Receiver

#### **Technical data** System components Emitter SLC30-150-T/92 SLC30-150-B/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 150 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<sub>M</sub>) 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 10 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 260 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 Per 750 g Approvals and certificates CE conformity CF

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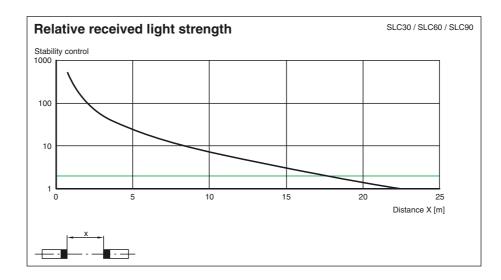
ΤÜV

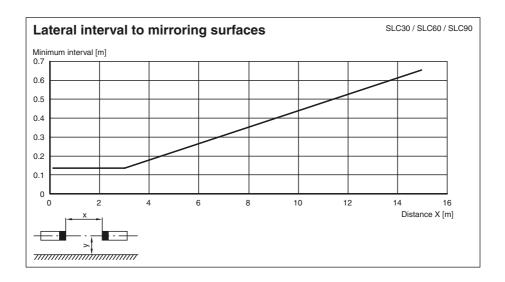
**UL** approval

CCC approval

TÜV approval

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





## **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