







SLC14-1050/130/151

Model Number

with 2 separate fail-safe semiconductor outputs

Features

- Sensing range up to 5 m
- Resolution 14 mm (finger protection)
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and Play
- · Start/Restart disable
- Very short response time
- Protection degree 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

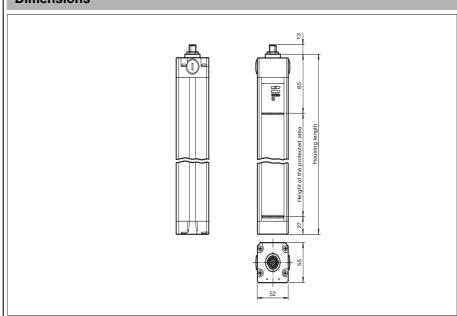
PG SLC-1050

Protective glass panes for SLC series

BASLC

laser alignment aid for safety light cutrtains series SLC

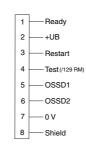
Dimensions



Electrical connection

Emitter Receiver





Pinout





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Technical data General specifications Effective detection range 0.2 ... 5 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 ... 5 m Protection field height 1050 mm Number of beams can be selected with or without start/restart disable Operating mode Optical resolution 14 mm 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_M) 20 a 2 28 F-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 U_B Emitter: ≤ 100 mA receiver: ≤ 150 mA No-load supply current I₀ 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 22 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 1160 mm Housing length L 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 3450 g General information System components Emitter SLC 14 - 1050 -T/130 / 92 Receiver SLC 14 - 1050 -R/130 / 151 Compliance with standards and directives Directive conformity Machinery Directive 2006/42/EC EN ISO 13849-1:2008 EN 61496-1:2004/A1:2008

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EMC Directive 2004/108/EC

Standard conformity Standards

UL approval

CCC approval TÜV approval

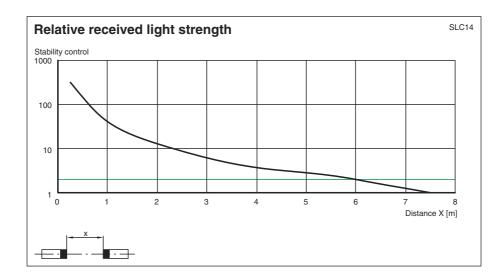
Approvals and certificates CE conformity

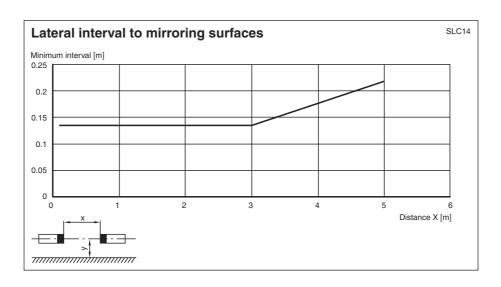
cULus Listed

CE

EN 61000-6-4:2007 + A1:2011

IEC 61496-2:2006 EN 50178:1997





Master-Slave operation

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

or SLC ..-../31 (relay)

SLC..-...-S Slave:



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.
- 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.
- 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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