





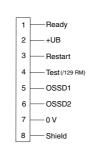


Electrical connection

Emitter Receiver

Dimensions





Model Number

SLC14-1800/129/130

with 2 separate fail-safe semiconductor outputs

Features

- Sensing range up to 5 m
- Resolution 14 mm (finger protection)
- · Protective field height up to 1800 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and Play
- Very short response time
- Protection degree IP67
- · Integrated function display
- Pre-fault indication
- Safety outputs OSSD in potential-separated semiconductor version
- Start/Restart disable preset by Option /129
- Integrated relay monitor

Accessories

PG SLC-1800

Protective glass panes for SLC series

BA SLC

laser alignment aid for safety light cutrtains series SLC

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 1800 mm Number of beams 192 Operating mode Startup/restart disable preset with Relay monitor (preset) 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 PFH_d 2.28 E-8 Type Indicators/operating means 7-segment display in emitter Operating display Diagnostics display 7-segment display in receiver in receiver: LED red: OSSD off Function display LED green: OSSD on LED yellow: Protected area free, system start-ready Pre-fault indication LED orange Transmission coding Controls **Electrical specifications** Operating voltage U_B 24 V DC (-30 %/+25 %) No-load supply current Emitter: ≤ 100 mA receiver: ≤ 150 mA Protection class Input Activation current approx. 10 mA 0.03 ... 1 s Activation time Function input Start release Output Safety output 2 separated fail safe semiconductor outputs Signal output 1 PNP, max. 100 mA for start readiness Operating voltage -2 V Switching voltage Switching current max. 0.5 A Response time 36 ms **Ambient conditions** Ambient temperature 0 ... 55 °C (32 ... 131 °F) -25 ... 70 °C (-13 ... 158 °F) Storage temperature Relative humidity max. 95 %, not condensing Mechanical specifications Housing length L 1910 mm Protection degree IP67 Connection Emitter: terminal compartment with screw terminals, lead cross-section max. 1.5 mm² Receiver: terminal compartment with screw terminals, lead cross-section max. 1.5 mm² 126045_eng.xml Material Housing extruded aluminum profile, RAL 1021 (yellow) coated Optical face Plastic pane Mass Per 5700 g **General information** System components Emitter SLC14-1800-T/130 SLC14-1800-R/129/130 Receiver Compliance with standards and directives Directive conformity

Date of issue: 2012-08-01

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

2012-08-01

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Subject to modifications without notice

Machinery Directive 2006/42/EC

EMC Directive 2004/108/EC

Standard conformity

Approvals and certificates

Standards

CE conformity

CCC approval

UL approval

EN ISO 13849-1:2008 EN 61496-1:2004/A1:2008

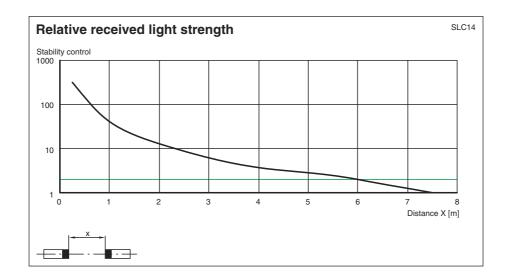
EN 61000-6-4:2007 + A1:2011

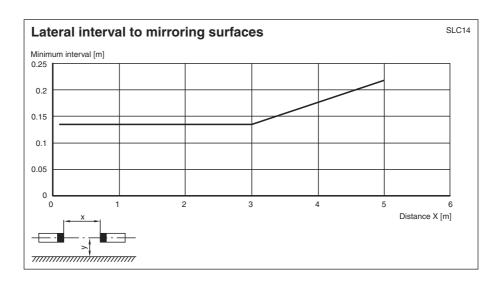
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cULus Listed

IEC 61496-2:2006 EN 50178:1997





Master-Slave operation

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

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

Slave: SLC..-..-S



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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