









Model Number

SLC30-1350/31

with 2 relay outputs with two force-guided normally open contacts

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
- Start/Restart disable
- Protection degree IP67
- Integrated function display
- Pre-fault indication
- Safety outputs OSSD in potential-separated semiconductor design or with monitored, compelled connection NC-contacts
- Optional with relay monitor (Option 129)

Accessories

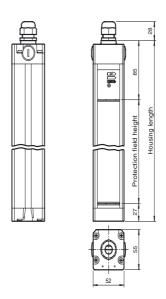
PG SLC-1350

Protective glass panes for SLC series

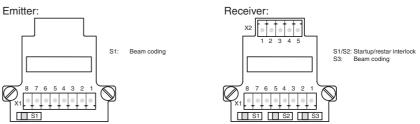
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laser alignment aid for safety light cutrtains series SLC

Dimensions



Electrical connection



terminal	emitter	receiver SLCR/31 (relay output)	receiver SLCR/31 (Relay monitor)
X1:1	Functional earth	Functional earth	Functional earth
X1:2		test (input)	Relay monitor
X1:3		OSSD2.2 (output)	OSSD2.2 (output)
X1:4		OSSD1.2 (output)	OSSD1.2 (output)
X1:5		OSSD2.1 (output)	OSSD2.1 (output)
X1:6		OSSD1.1 (output)	OSSD1.1 (output)
X1:7	0 V AC/DC	0 V AC/DC	0 V AC/DC
X1:8	24 V AC/DC	24 V AC/DC	24 V AC/DC
X2:1		Start release (output)	Start release (output)
X2:2		Status OSSD (output)	Status OSSD (output)
X2:3	Not placed on board	24 V reference potential for I/O	24 V reference potential for I/O
X2:4		0 V reference potential for I/O	0 V reference potential for I/O
x2:5		Startup readiness (input)	Startup readiness (input)

Technical data General specifications Effective detection range 0.2 ... 15 m IRFD Light source modulated infrared light Light type Approvals TÜV, UL Tests IEC/EN 61496 Safety type according to IEC/EN 61496 CE Marking Width of protected area 0.2 ... 15 m Protection field height 1350 mm Number of beams can be selected with or without start/restart disable Operating mode Optical resolution 30 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 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 %) / 24 V AC (-20 %/+10 %) 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 Function input Start release Output Safety output 2 relay outputs, force-guided NO-contact Signal output 1 PNP each, max. 100 mA for start readiness and OSSD status Switching voltage 50 V Switching current max. 2 A Switching power 100 VA Response time 44 ms **Ambient conditions** Ambient temperature 0 ... 55 °C (32 ... 131 °F) Storage temperature -25 ... 70 °C (-13 ... 158 °F) Relative humidity max. 95 %, not condensing Mechanical specifications Housing length L 1460 mm Protection degree IP67 Connection M20 cable gland, terminal compartment with screw terminals, lead cross-section max. 1.5 mm² Further electrical connection options on request: Connection options Connector M12, 8-pin Connector DIN 43 651 Hirschmann, 6-pin+PE Connector M26x11 Hirschmann, 11-pin+PE Material extruded aluminum profile, RAL 1021 (yellow) coated Housing Optical face Plastic pane Per 4350 g Mass **General information** System components Emitter SLC30-1350-T Receiver SLC30-1350-R/31 Compliance with standards and directi-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

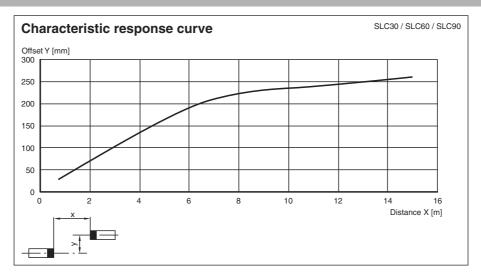
Standards

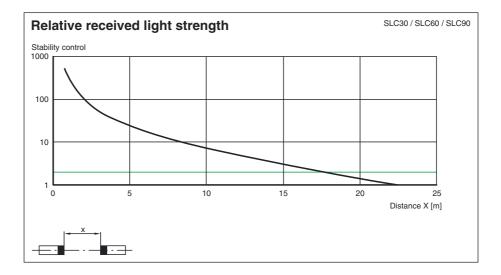
IEC 61496-2:2006 EN 50178:1997

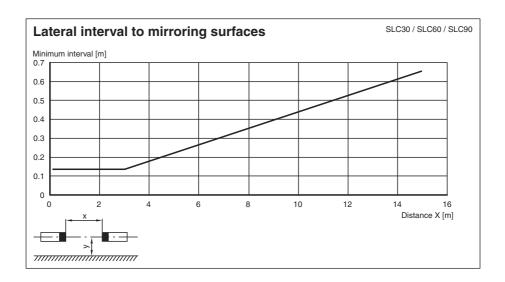
Approvals and certificates

CE conformity	CE
UL approval	cULus Listed
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.
TÜV approval	ΤÜV

Curves/Diagrams







Notes

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Master slave mode

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:

- 1 The end cap should be screwed off for the light curtain (without cable gland).
- The plug-in jumper on the connectors of the printed circuit board, which is now visible, should be removed. 2
- 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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