







Model Number

SLC14-1350/130

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
- Start/Restart disable
- Very short response time
- 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
- Optional with ATEX certificates for zone 2 and 22 and protection degree IP66 (Option 133)

Accessories

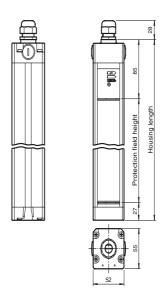
PG SLC-1350

Protective glass panes for SLC series

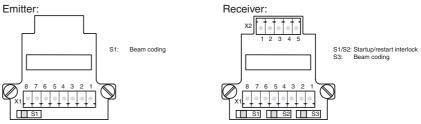
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laser alignment aid for safety light cutrtains series SLC

Dimensions



Electrical connection



Terminal	Emitter	Receiver SLCR (semiconductor output)	Receiver SLCR/129 (Relay monitor)	
X1:1	Functional earth	Functional earth	Functional earth	
X1:2		Test (input)	Relay monitor	
X1:3		0 V OSSD	0 V OSSD	
X1:4		24 V OSSD	24 V OSSD	
X1:5		OSSD2 (output)	OSSD2 (output)	
X1:6		OSSD1 (output)	OSSD1 (output)	
X1:7	0 V AC/DC	0 V DC	0 V DC	
X1:8	24 V AC/DC	24 V DC	24 V DC	
X2:1		Start release (output)	Start release (output)	
X2:2		Status OSSD (output)	Status OSSD (output)	
X2:3	Not placed on board	n.c.	n.c.	
X2:4		n.c.	n.c.	
x2:5		Startup readiness (input)	Startup readiness (input)	

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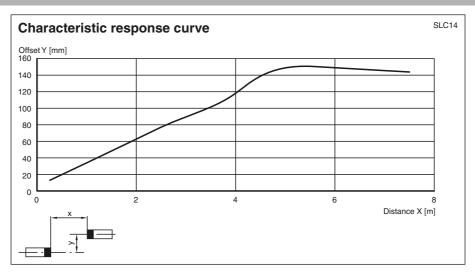
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Technical data		
General specifications		
Effective detection range	0.2 5 m	
Light source	IRED	
Light type	modulated infrared light	
Approvals	TUV, UL	
Tests	IEC/EN 61496	
Safety type according to IEC/EN 6		
Marking	CE	
Width of protected area Protection field height	0.2 5 m	
Number of beams	1350 mm	
	144	
Operating mode	can be selected with or without start/restart disable	
Optical resolution	14 mm <5 °	
Angle of divergence		
Functional safety related paramet		
Safety Integrity Level (SIL)	SIL 3	
Performance level (PL)	PL e	
Category	Cat. 4	
Mission Time (T _M)	20 a	
PFH _d	2.28 E-8	
Type	4	
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	LED orange	
Controls	switch for start/restart disable, transmission coding	
Electrical specifications		
-	U _B 24 V DC (-30 %/+25 %)	
	l ₀ Emitter: ≤ 100 mA receiver: ≤ 150 mA	
Protection class		
	III	
Input Activation augment	annuary 10 mA	
Activation current	approx. 10 mA 0.03 1 s	
Activation time	Reset-input for system test	
Test input	Start release	
Function input	Start release	
Output		
Safety output	2 separated fail safe semiconductor outputs	
Signal output	1 PNP each, max. 100 mA for start readiness and OSSD status	
Switching voltage	Operating voltage -2 V	
Switching current	max. 0.5 A	
Response time	28 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 mm ²	
Connection options	Further electrical connection options on request: Connector M12, 8-pin Connector DIN 43 651 Hirschmann, 6-pin+PE	
	Connector M26x11 Hirschmann, 11-pin+PE	
Material		
Housing	extruded aluminum profile, RAL 1021 (yellow) coated	
Optical face	Plastic pane	
Mass	Per 4350 g	
General information		
System components		
Emitter	SLC 14 - 1350 -T/ 130	
Receiver	SLC 14 - 1350 -R/ 130	
Compliance with standards and d		
ves		
Directive conformity	EN 100 400 10 4 0000 EN 04400 4 000 1/1 1 0000	
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	IFO 04400 0.0000 FN F0470-4007	
Standards	IEC 61496-2:2006 EN 50178:1997	
Approvals and certificates		

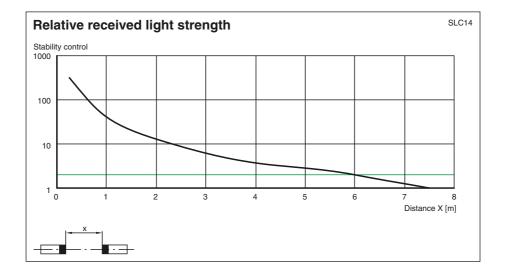
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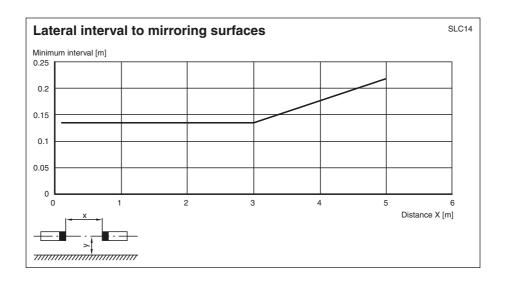
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CE conformity	CE
UL approval	cULus Listed
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.
TÜV approval	TÜV

Curves/Diagrams







Note

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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:

- 1 The end cap (no cable gland) on the light curtain is unscrewed and removed.
- The plug-in jumper on the connectors of the now visible PCB is removed. 2
- 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