Safety light curtain

CE

Model Number SLC14-1350/31/130

normally open contacts

Features

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Dimensions



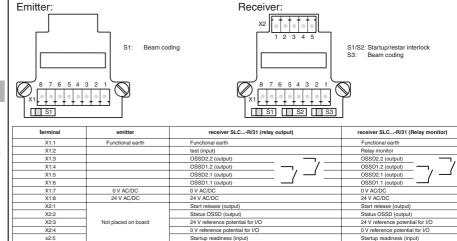
8

85

Protection field height Housing

27







- •
- Degree of protection IP67 .
- •
- •
- parated 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

BA SLC

laser alignment aid for safety light cutrtains series SLC

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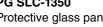
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Sensing range up to 5 m

with 2 relay outputs with two force-guided

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 ٠ Play
- Start/Restart disable
- Very short response time
- Integrated function display
- Pre-fault indication
- Safety outputs OSSD in potential-se-.





Technical data		
System components		
Emitter	SLC14-1350-T/130	
Receiver	SLC14-1350-R/31/130	
General specifications		
Effective detection range	0.2 5 m	
Light source	IRED	
Light type	modulated infrared light	
LED risk group labelling	exempt group	
Tests	IEC/EN 61496	
Safety type according to IEC/EN	N 61496 4 0.2 5 m	
Width of protected area Protection field height	0.2 5 m 1350 mm	
Number of beams	144	
Operating mode	can be selected with or without start/restart disable	
Optical resolution	14 mm	
Angle of divergence	<5 °	
Functional safety related parar		
Safety Integrity Level (SIL)	SIL 3	
Performance level (PL)	PL e	
Category	Cat. 4	
Mission Time (T _M)	20 a	
PFH _d	2.42 E-8	
Туре	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	
Pre-fault indicator	LED yellow: Protected area free, system start-ready	
Control elements	LED orange switch for start/restart disable, transmission coding	
	Switch for start restart disable, transmission county	
Electrical specifications		
Operating voltage	U _B 24 V DC (-30 %/+25 %) / 24 V AC (-20 %/+10 %) I ₀ Emitter: ≤ 100 mA receiver: ≤ 150 mA	
No-load supply current Protection class	I ₀ Emitter: ≤ 100 mA receiver: ≤ 150 mA III	
	II.	
Input Activation current	approx 10 mA	
	approx. 10 mA 0.03 1 s	
Activation time 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	48 ms	
Conformity		
Functional safety	ISO 13849-1	
i unotional salety		
Product standard	EN 61496-1 ; IEC 61496-2	
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	
Degree of protection	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	
	Per 4350 g	
Mass	-	
Approvals and certificates	CE	
Approvals and certificates CE conformity	CE cULus Listed	
Approvals and certificates		

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

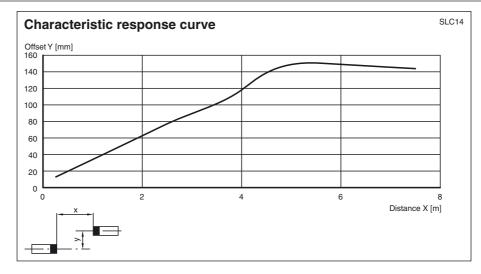
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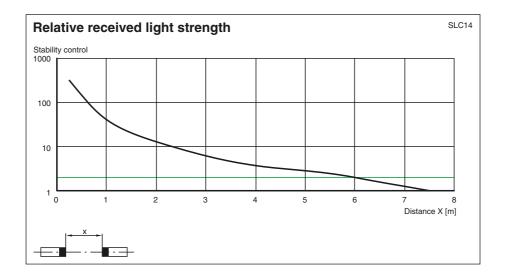
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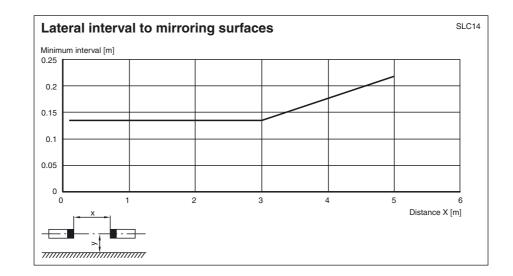
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Curves/Diagrams







Note

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Master-Slave operation

Master:	SLC (semiconductor)
	or SLC/31 (relay)
Slave:	SLCS

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Safety light curtain

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.
- З 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. 4

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

