



Safety light curtain

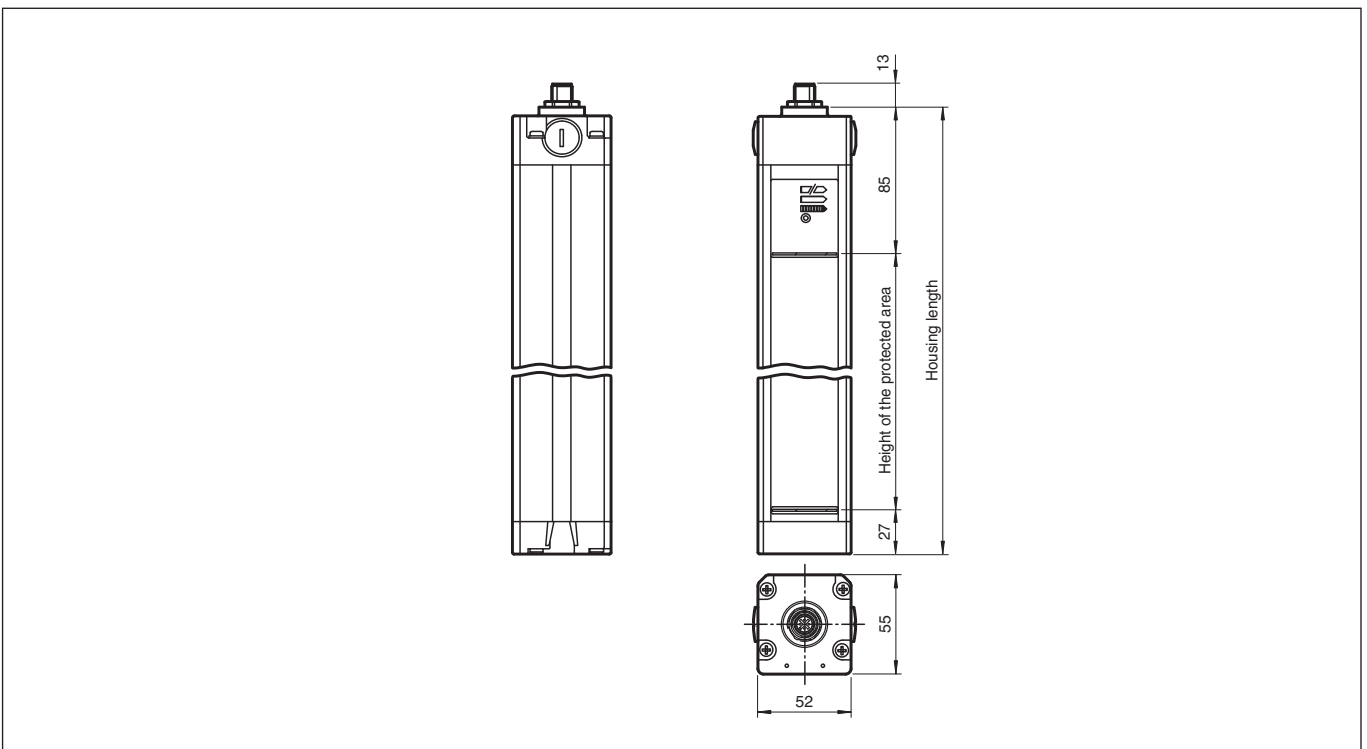
SLC14-1350/130/151



- 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
- Degree of protection 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



Dimensions



Technical Data

System components	
Emitter	SLC14-1350-T/130
Receiver	SLC14-1350-R/130/151
General specifications	
Effective detection range	0.2 ... 5 m
Light source	IREL
Light type	modulated infrared light

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

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Technical Data

LED risk group labelling	exempt group	
Tests	IEC/EN 61496	
Safety type according to IEC/EN 61496	4	
Width of protected area	0.2 ... 5 m	
Protection field height	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 parameters		
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	
Type	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 LED yellow: Protected area free, system start-ready	
Pre-fault indicator	LED orange	
Control elements	switch for start/restart disable, transmission coding	
Electrical specifications		
Operating voltage	U _B	24 V DC (-30 %/+25 %)
No-load supply current	I ₀	Emitter: ≤ 100 mA receiver: ≤ 150 mA
Protection class	III	
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	28 ms	
Conformity		
Functional safety	ISO 13849-1	
Product standard	EN 61496-1 ; IEC 61496-2	
Approvals and certificates		
CE conformity	CE	
UL approval	cULus Listed	
CCC approval	CCC approval / marking not required for products rated ≤36 V	
TÜV approval	TÜV	
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	

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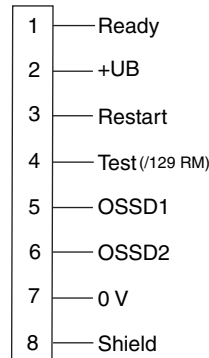
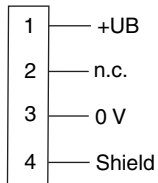
Technical Data

Degree of protection	IP67
Connection	Emitter: M12 connector, 4-pin Receiver: M12 connector, 8-pin
Material	
Housing	extruded aluminum profile, RAL 1021 (yellow) coated
Optical face	Plastic pane
Mass	Per 4350 g

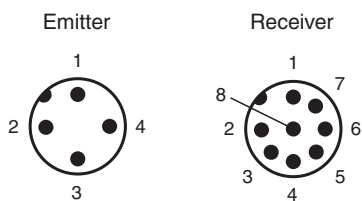
Connection Assignment

Emitter

Receiver

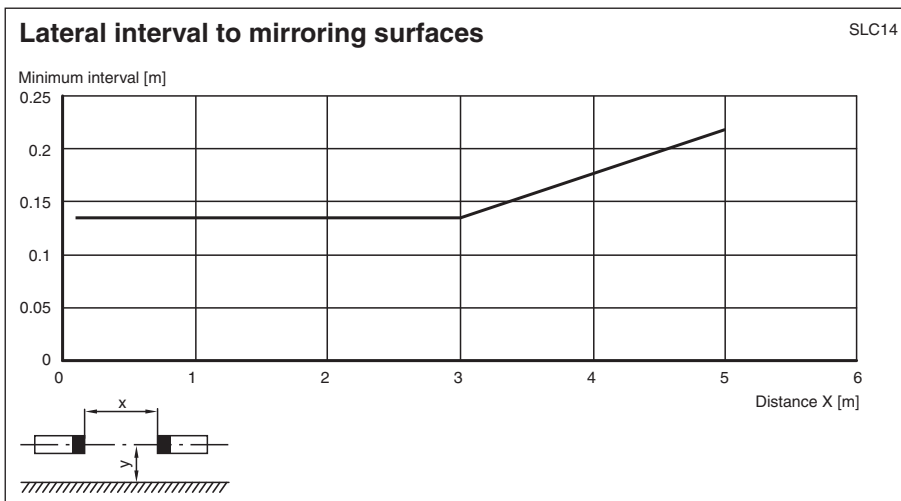
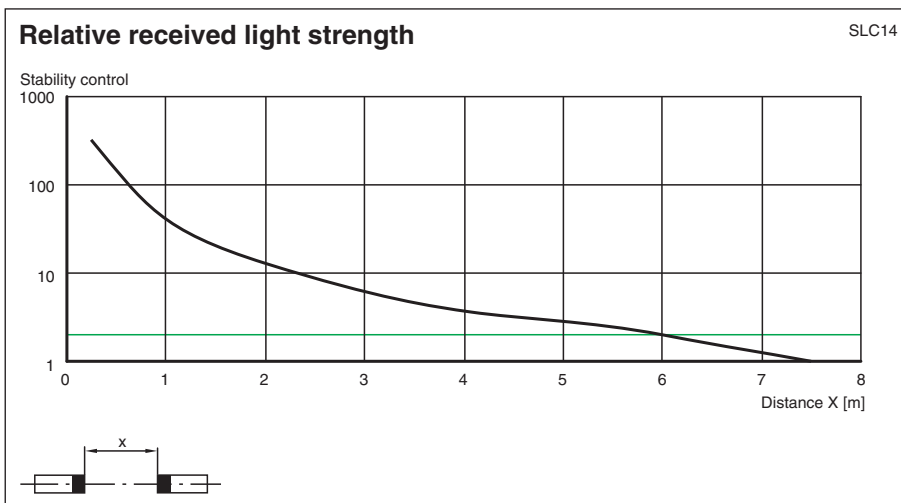
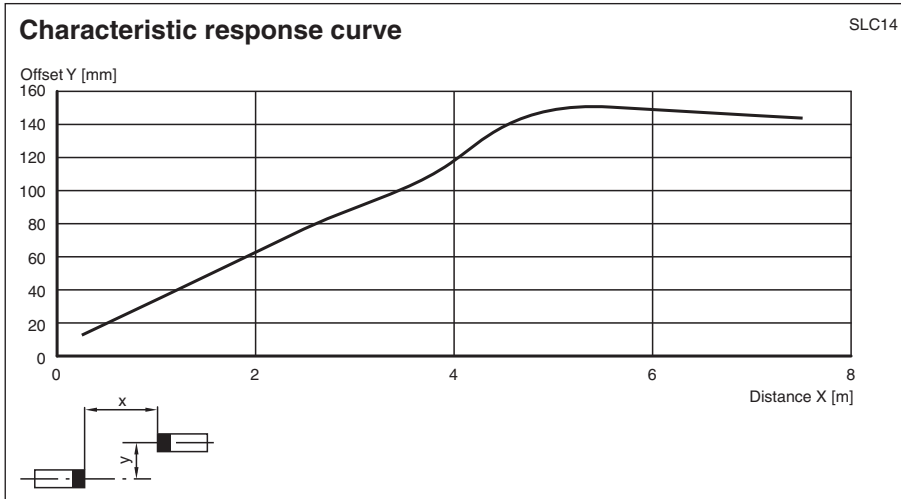


Connection Assignment






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Characteristic Curve















Matching system components

	SB4-OR-4XP-B-4159	Safety control unit
	SB4-OR-4XP	Safety control unit
	SB4-OR-4XP-B	SB4 series safety control unit with 1 optional module slot for functional enhancement

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Matching system components

	SB4-OR-4XP-B-B	SB4 series safety control unit with optional module slots for functional enhancement
	SB4-OR-4XP-B-B-B	SB4 series safety control unit with optional module slots for functional enhancement
	SB4-OR-4XP-B-B-B-B	SB4 series safety control unit with optional module slots for functional enhancement
	SB4-OR-4XP-B-B-B-B-B	SB4 series safety control unit with optional module slots for functional enhancement
	SB4-OR-4XP-B-4158	Safety control unit
	SB4-OR-4XP-3819	Safety control unit
	SB4-OR-4XP-4M	Safety control unit
	SB4-OR-4XP-4MD	Safety control unit
	SB4-OR-4XP-4M-4136	Safety control unit of series SB4
	SB4-OR-4XP-4X	Safety control unit
	SB4-OR-4XP-4X-3819	Safety control unit
	SB4-OR-4XP-4136	Safety control unit of series SB4

Accessories

	PG SLC-1350	Protective glass panes for SLC series
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Note

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.
2. The plug-in jumper on the connectors of the now visible PCB is removed.
3. 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.
4. 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