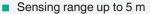


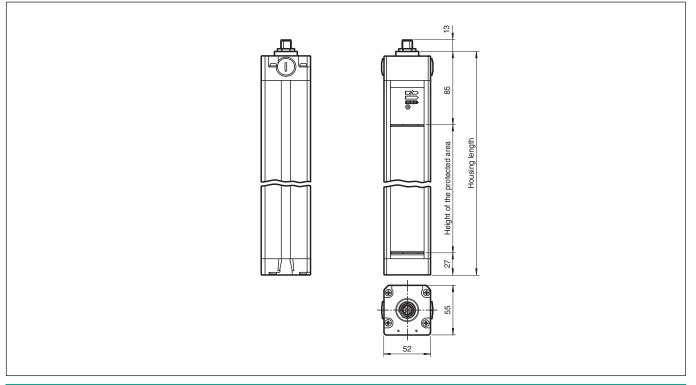
Safety light curtain

SLC14-450/129/151



- Resolution 14 mm (finger protection)
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and Play
- Degree of protection IP67
- Integrated function display
- Pre-fault indication
- Connection via appliance socket M12 x b1
- Safety outputs OSSD in potential-separated semiconductor version
- Protective field height up to 1800 mm
- Start/Restart disable preset by Option /129

Dimensions



Technical Data

System components		
Emitter	SLC14-450-T/92	
Receiver	SLC14-450-R/129/151	
General specifications		
Effective detection range	0.2 5 m	
Light source	IRED	
Light type	modulated infrared light	
LED risk group labelling	exempt group	

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

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SLC14-450/129/151

Operating voltageUB24 V DC (-30 %/+25 %)No-load supply currentIbEmitter: ≤ 100 mA receiver: ≤ 150 mAProtection classIIIInputActivation currentapprox. 10 mAActivation time0.03 1 sTest inputReset-input for system test (not for option /129)Function inputStart releaseOutputStart releaseOutput1 PNP, max. 100 mA for start readinessSwitching voltageOperating voltage -2 VSwitching currentmax. 0.5 AResponse time18 msControlitorEN 1949-11Product standardEN 1949-12Product standardEN 1949-13Product standardCEUL approvalCEUL approvalCC capproval / marking not required for products rated ≤ 36 VTÜV approval055 °C (32131 °F)Ambient temperature055 °C (13158 °F)Relative humiditymax. 95 %, not condensing	Technical Data		
Salely type according to EC/EN 614964With of protection area0 2 5 mProtection field height45 mmNumber of beams48Optical resolution1 mmAngle of divergence5 °Functional activ trated parameters5 °Sales field resolution6 LeCatagoryCat. 4Measion Time (Twi)20 aPerformance level (PL)Cat. 4CatagoryCat. 4Measion Time (Twi)20 aPFH,2.0 aTipe de CatagoryCat. 4CatagoryCat. 4CatagoryCat. 4Deretion indicator7 segment display in emitterDisplay to indicator1 resolverFunction indicator1 sequenceFunction indicator1 sequenceSequence1 sequenceSequence1 sequenceNohead sup	Tests		IEC/EN 61496
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Optical resolutionImage of the main of th			
Angle of divergence < 5 °			
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Function indicator in measure LED gream: OSSD off LED gream: OSSD off LED gream: OSSD on LED yeallow: Protected area free, system start-ready Pre-fault indicator LED orange Control elements switch for start/restart disable, transmission coding Electrical specifications 24 V DC (-30 %/+25 %) No-load supply current lp Protection class III Input Activation current Activation current approx. 10 mA Activation current approx. 10 mA Activation time 0.03 1 s Test input Reset-input for system test (not for option /129) Function input 2 separated fail safe semiconductor outputs Signal output 1 PNP, max. 100 mA for start readiness Switching voltage Operating voltage - 2 V Switching voltage Operating voltage - 2 V Switching voltage Electrical Stafes Switching voltage Distafes - 2 Switching voltage Operating voltage - 2 V Switching voltage Electrical Stafes Conformity Electrical Stafes Product standard Elos 13849-1			
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Storage temperature -25 70 °C (-13 158 °F) Relative humidity max. 95 %, not condensing Mechanical specifications 560 mm	Ambient conditions		
Relative humidity max. 95 %, not condensing Mechanical specifications For the second	Ambient temperature		0 55 °C (32 131 °F)
Mechanical specifications Housing length L 560 mm	Storage temperature		-25 70 °C (-13 158 °F)
Housing length L 560 mm	Relative humidity		max. 95 %, not condensing
	Mechanical specifications		
Degree of protection IP67	Housing length L		560 mm
	Degree of protection		IP67

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

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Safety light curtain

SLC14-450/129/151

Technical Data

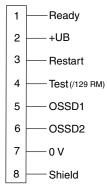
Connection	Emitter: M12 connector, 4-pin Receiver: M12 connector, 8-pin
Material	
Housing	extruded aluminum profile, RAL 1021 (yellow) coated
Optical face	Plastic pane
Mass	Per 1650 g
General information	
Note	Startup/restart disable preset

Connection Assignment

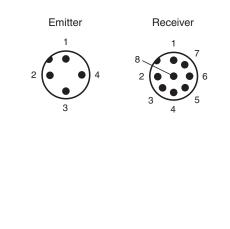
Emitter







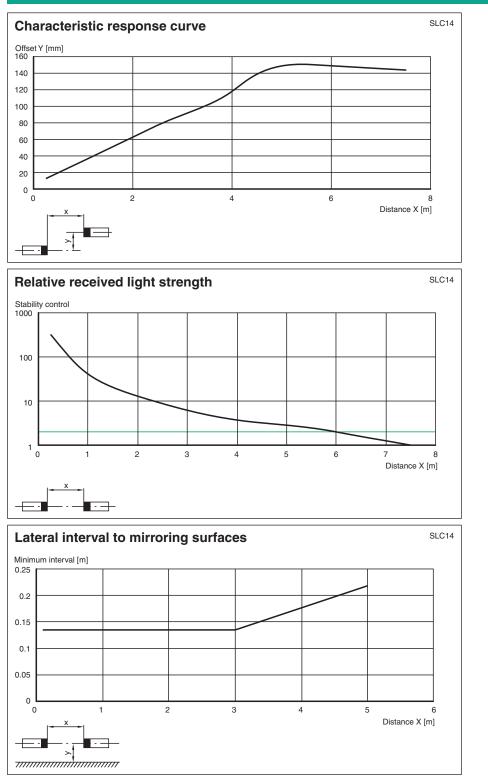
Connection Assignment



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

3

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

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

Pepperl+Fuchs Group www.pepperl-fuchs.com

Release date: 2020-03-23 Date of issue: 2020-10-06 Filename: 199723_eng.pdf

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SLC14-450/129/151

4

SLC14-450/129/151

Matching sy	letam com	nonante

_		
1	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-450	Protective glass panes for SLC series

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

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5

Notes

Master slave mode

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

or 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).
- 2. The plug-in jumper on the connectors of the printed circuit board, which is now visible, should be removed.
- 3. 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.
- 4. 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