Safety light curtain

SLC30-1350/129/151





Model Number

SLC30-1350/129/151

with 2 separate fail-safe semiconductor outputs

Features

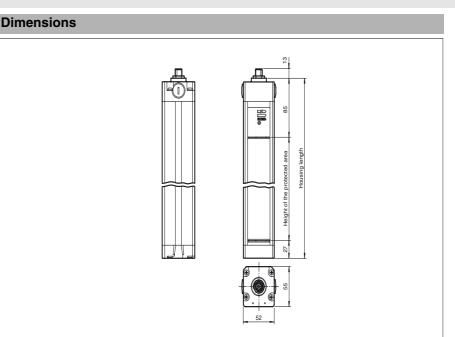
- ٠ Sensing range up to 15 m
- Resolution 30 mm (hand protection) ٠
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and ٠ Play
- Degree of protection IP67 ٠
- Integrated function display •
- Pre-fault indication
- Connection via appliance socket • M12 x b1
- Safety outputs OSSD in potential-se-• parated semiconductor version
- Protective field height up to 1800 mm ٠
- Start/Restart disable preset by Option /129

Accessories

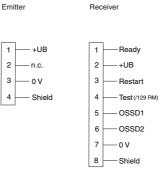
PG SLC-1350 Protective glass panes for SLC series

BA SLC

laser alignment aid for safety light cutrtains series SLC



Electrical connection



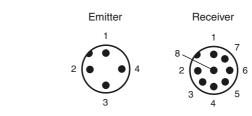
Pinout

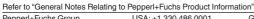
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Receiver S General specifications Effective detection range 0. Light source IF Light source IF Light type m LED risk group labelling ex Tests IE Safety type according to IEC/EN 61496 4 Width of protected area 0. Protection field height 13 Number of beams 72 Operating mode ca Optical resolution 30 Angle of divergence Functional safety related parameters S Safety Integrity Level (SIL) S Performance level (PL) P Category C Mission Time (T _M) 20 PFH _d 1. Type 4 Indicators/operating means 7 Operation indicator 7 Diagnostics indicator 7 Function indicator 7	0.2 15 m 1350 mm 72 can be selected with or without start/restart disable 30 mm < 5 ° SIL 3 PL e Cat. 4 20 a 1.5 E-8
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Operation indicator 7- Diagnostics indicator 7- Function indicator in	7-segment display in receiver n receiver:
Diagnostics indicator7-Function indicatorin	7-segment display in receiver n receiver:
Function indicator in	n receiver:
	ED green: OSSD on
	ED yellow: Protected area free, system start-ready
	LED orange switch for start/restart disable, transmission coding
	switch for star restart disable, transmission county
Electrical specifications Operating voltage U _B 2 ⁴	24 V DC (-30 %/+25 %)
	Emitter: ≤ 100 mA receiver: ≤ 150 mA
Protection class III	
Input	11
•	approx. 10 mA
	0.03 1 s
	Reset-input for system test (not for option /129)
•	Start release
Output	
	2 separated fail safe semiconductor outputs
	1 PNP, max. 100 mA for start readiness
	Dperating voltage -2 V
0 0	nax. 0.5 A
Response time 24	24 ms
Conformity	
-	SO 13849-1
Product standard E	EN 61496-1 ; IEC 61496-2
Ambient conditions	
•	D 55 °C (32 131 °F)
Storage temperature -2	25 70 °C (-13 158 °F)
-	nax. 95 %, not condensing
Mechanical specifications	
	1460 mm
5	
	Emitter: M12 connector, 4-pin Receiver: M12 connector, 8-pin
Material	
_	extruded aluminum profile, RAL 1021 (yellow) coated
-	Plastic pane
	Per 4350 g
General information	
	Startup/restart disable preset
Approvals and certificates	CE
2	
	CULus Listed
	CCC approval / marking not required for products rated ≤36 V TÜV
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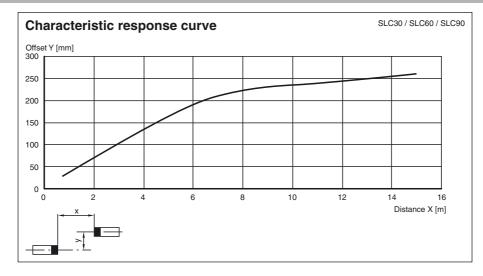
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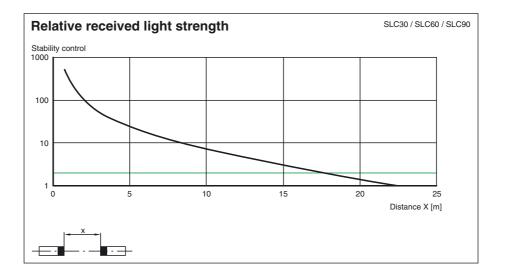
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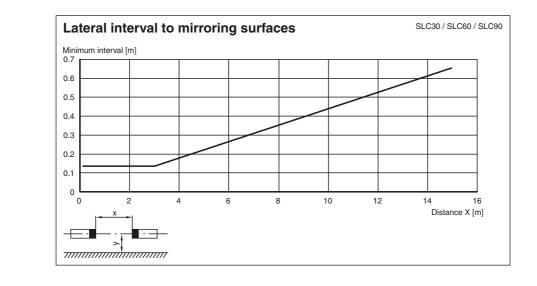
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Curves/Diagrams







Notes

Master slave mode

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

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:

- The end cap should be screwed off for the light curtain (without cable gland). 1
- 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

