

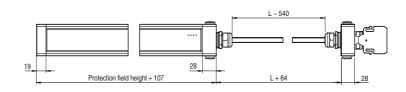








Dimensions



Model Number

SLC90-600-S

Slave module for master slave mode

Features

- Sensing range up to 15 m
- Resolution 90 mm
- 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
- 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 ATEX certificates for zone 2 and 22 and protection degree IP66 (Option 133)

Accessories

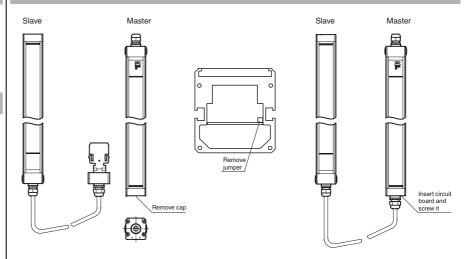
PG SLC-600

Protective glass panes for SLC series

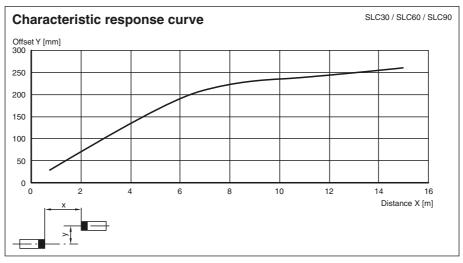
BASLC

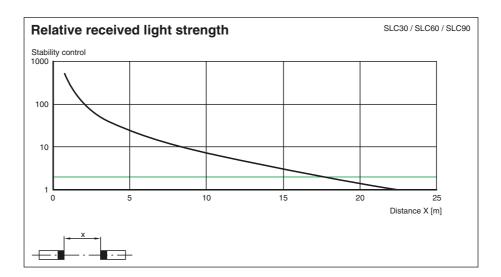
laser alignment aid for safety light cutrtains series SLC

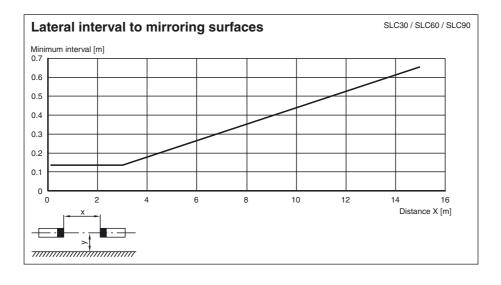
Electrical connection



Technical data	
General specifications	
Effective detection range 0.2 15 m	
Light source IRED	
Light type modulated infrared light	
Approvals TÜV, UL	
Tests IEC/EN 61496	
Safety type according to IEC/EN 61496 4	
Marking CE	
Width of protected area 0.2 15 m	
Protection field height 600 mm	
Number of beams 8	
Operating mode in the master	
Optical resolution 90 mm	
Angle of divergence < 5 °	
Functional safety related parameters	
Safety Integrity Level (SIL) SIL 3	
Performance level (PL) PL e	
Mission Time (T _M) 20 a	
PFH _d 1.35 E-8	
Type 4	
Indicators/operating means	
Operating display in the master	
Diagnostics display in the master	
Function display in the master	
Pre-fault indication in the master	
Controls in the master	
Electrical specifications	
·	
Operating voltage U _B from master	
No-load supply current I ₀ from master	
Protection class III	
Input	
Test input in the master	
Function input in the master	
Output	
Safety output in the master	
Signal output in the master	
Response time depends on height of protective field	
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 710 mm	
Protection degree IP67	
Connection M20 cable gland,	
terminal compartment with screw terminals, lead cre	oss-section max. 1.5 mm ²
Material	
Housing extruded aluminum profile, RAL 1021 (yellow) coate	d
Optical face Plastic pane	
Mass Per 2100 g	
-	
General information	
System components	
Emitter SLC90-600-T-S	
Emitter SLC90-600-T-S Receiver SLC90-600-R-S	
Receiver SLC90-600-R-S	
Receiver SLC90-600-R-S Compliance with standards and directi-	
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Receiver SLC90-600-R-S Compliance with standards and directives Directive conformity 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 Standards IEC 61496-2:2006 EN 50178:1997 Approvals and certificates CE conformity CE	
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Receiver SLC90-600-R-S Compliance with standards and directives Directive conformity 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 Standards IEC 61496-2:2006 EN 50178:1997 Approvals and certificates CE conformity CE UL approval cULus Listed	V do not bear a CCC marking because they do not require approval.







Notes

Response times of cascading units

If cascading units are set up, the response time of the entire SLC, consisting of a master and a slave, must be determined. The overall number of beams for master and slave can be determined from technical data sheets. Depending on the type of output, the resulting response time can be read from the table.

-	-	-	

Number of beams	Response time in milliseconds		
	Semiconductor output	Relay output	
8	10	30	
16	10	30	
24	12	32	
32	14	34	
40	16	36	
48	18	38	
56	20	40	
64	22	42	
72	24	44	
80	26	46	
88	28	48	
96	30	50	

Example: Master: SLC14-300/31 32 beams

Slave: SLC60-90-S+ 24 beams

56 beams

56 beams, OSSD relay --> response time = 40 ms.

Notes

Master slave mode

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

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:

- 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.
- 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