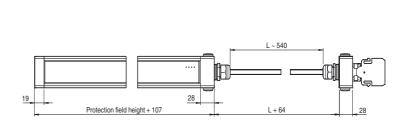
Safety light curtain





Electrical connection

Dimensions

Model Number

SLC30-1650-S

Slave module for master slave mode

Features

- ٠ Sensing range up to 15 m
- Resolution 30 mm (hand protection) ٠
- Protection field height up to 1650 mm
- Self-monitoring (type 4 according to • IEC/EN 61496-1)
- Master/Slave detection, Plug and ٠ Play
- Start/Restart disable ٠
- Protection degree IP67 •
- Integrated function display .
- Pre-fault indication •
- Safety outputs OSSD in potential-se-• parated semiconductor design or with monitored, compelled connection NC-contacts
- ٠ Optional with ATEX certificates for zone 2 and 22 and protection degree IP66 (Option 133)

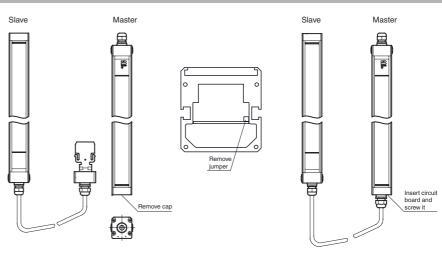
Accessories

PG SLC-1650

Protective glass panes for SLC series

BA SLC

laser alignment aid for safety light cutrtains series SLC



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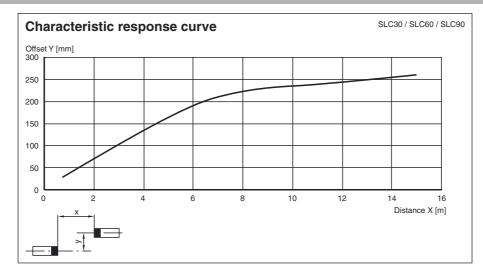


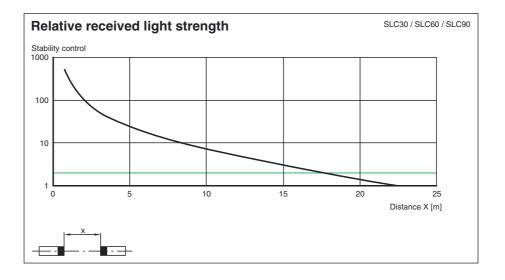
1

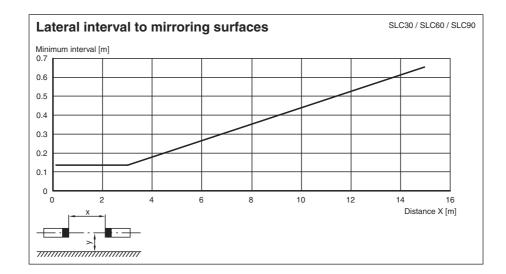
Technical data		l
General specifications		1
Effective detection range	0.2 15 m	
Light source	IRED	
Light type	modulated infrared light	
Approvals	TÜV, UL	
Tests	IEC/EN 61496	
Safety type according to IEC/EN 61496	4	
Marking	CE	
Width of protected area	0.2 15 m	
Protection field height	1650 mm	
Number of beams	88	
Operating mode	in the master	
Optical resolution	30 mm	
Angle of divergence	< 5 °	
Functional safety related parameters		
Safety Integrity Level (SIL)	SIL 3	
Performance level (PL)	PLe	
Category	Cat. 4	
Mission Time (T _M)	20 a	
PFH _d	1.35 E-8	
Туре	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	1760 mm	
Protection degree	IP67	
Connection	M20 cable gland .	
	terminal compartment with screw terminals, lead cross-section max. 1.5 mm ²	
Material		
Housing	extruded aluminum profile, RAL 1021 (yellow) coated	
Optical face	Plastic pane	
Mass	Per 5250 g	
General information		
System components		1
Emitter	SLC30-1650-T-S	
Receiver	SLC30-1650-R-S	
Compliance with standards and direct	i-	11700
ves		;
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	ç
Standard conformity		č
Standards	IEC 61496-2:2006 EN 50178:1997	
Approvals and certificates		1
CE conformity	CE	
UL approval	cULus Listed	
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval	. i
TÜV approval	TÜV	- 7 - 7
		- 20

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Curves/Diagrams







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.

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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<u>+ 24 beams</u> 56 beams

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

Notes

Master slave mode

SLC (semiconducto	
or	
SLC/31 (relay)	
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:

- 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

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