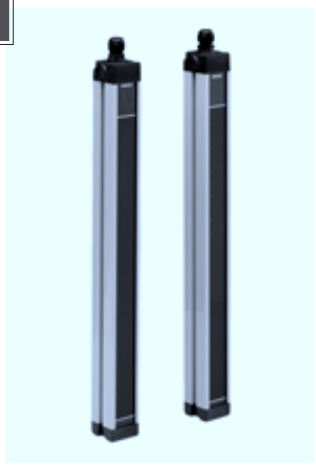
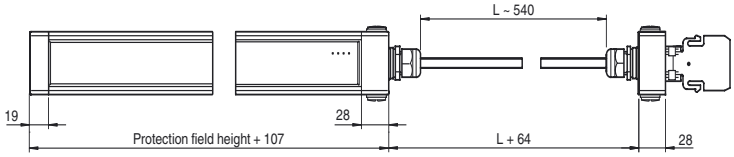


Dimensions



Model Number

SLC14-150-S

Slave module for master slave mode

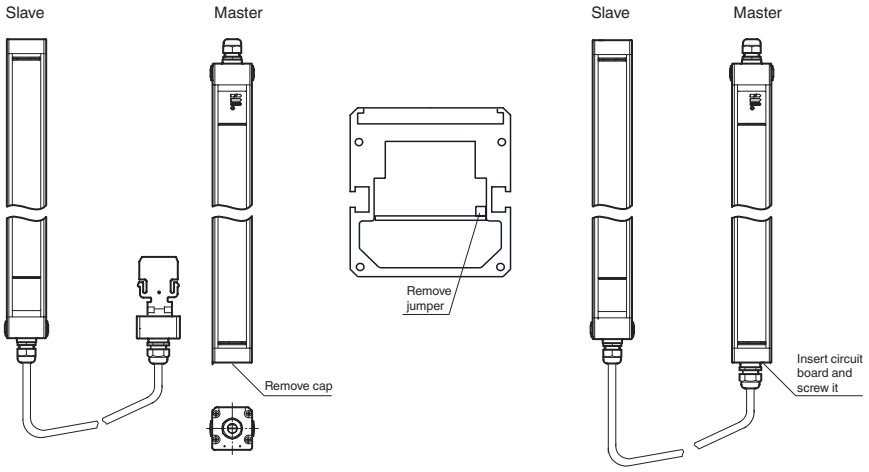
Features

- Sensing range up to 5 m
- Resolution 14 mm (finger protection)
- Protection field height up to 750 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

BA SLC
laser alignment aid for safety light cutrtains series SLC

Electrical connection



Release date: 2012-08-01 11:46 Date of issue: 2012-08-01 117582_eng.xml

Technical data

General specifications		
Effective detection range		0.2 ... 5 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 ... 5 m
Protection field height		150 mm
Number of beams		16
Operating mode		in the master
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		2.28 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		260 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 750 g
General information		
System components		
Emitter		SLC14-150-T-S
Receiver		SLC14-150-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
CCC approval		Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.
TÜV approval		TÜV

Release date: 2012-08-01 11:46 Date of issue: 2012-08-01 117582_eng.xml

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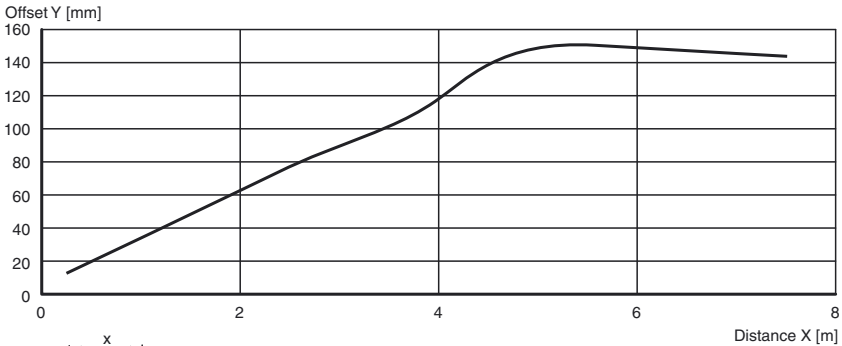
Curves/Diagrams

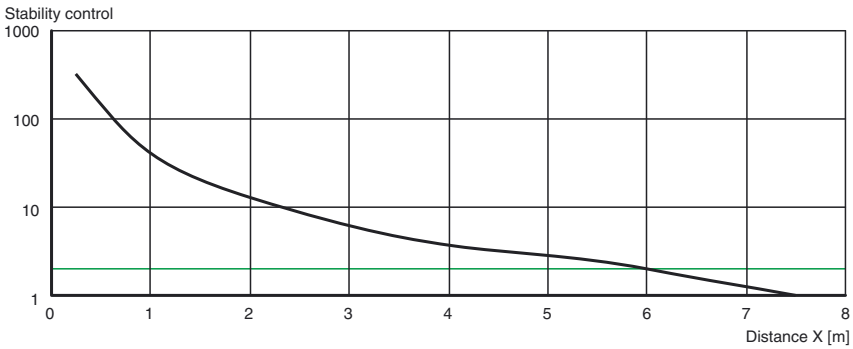
Characteristic response curve

SLC14



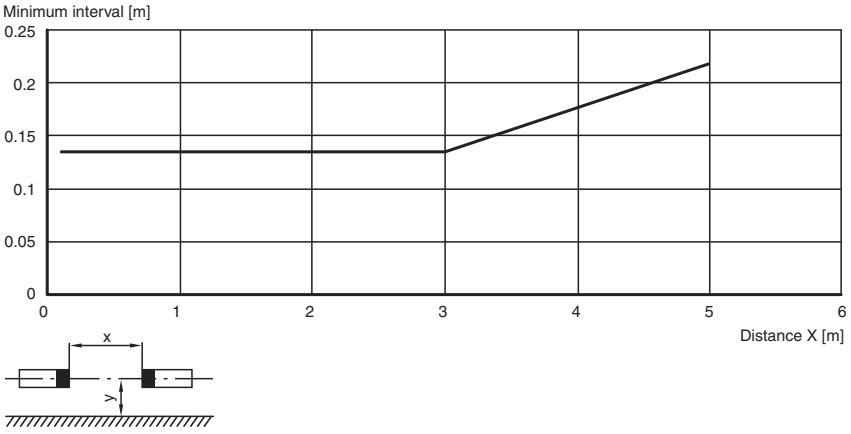
Relative received light strength

SLC14



Lateral interval to mirroring surfaces

SLC14



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.

Release date: 2012-08-01 11:46 Date of issue: 2012-08-01 117582_eng.xml

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)
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

Release date: 2012-08-01 11:46 Date of issue: 2012-08-01 117582_eng.xml