









Model Number

SLC30-150

with 2 separate fail-safe semiconductor outputs

Features

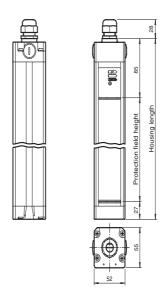
- Sensing range up to 15 m
- Resolution 30 mm (hand protection)
- Protective field height up to 1800 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and Play
- Start/Restart disable
- Protection degree IP67
- Integrated function display
- Pre-fault indication
- Safety outputs OSSD in potential-separated semiconductor design or with monitored, compelled connection NC-contacts
- Optional with relay monitor (Option 129)
- Optional with ATEX certificates for zone 2 and 22 and protection degree IP66 (Option 133)

Accessories

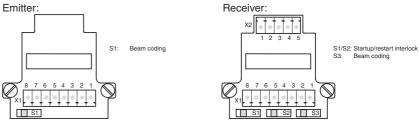
BA SLC

laser alignment aid for safety light cutrtains series SLC

Dimensions



Electrical connection



Terminal	Emitter	Receiver SLCR (semiconductor output)	Receiver SLCR/129 (Relay monitor)	
X1:1	Functional earth	Functional earth	Functional earth	
X1:2		Test (input)	Relay monitor	
X1:3		0 V OSSD	0 V OSSD	
X1:4		24 V OSSD	24 V OSSD	
X1:5		OSSD2 (output)	OSSD2 (output)	
X1:6		OSSD1 (output)	OSSD1 (output)	
X1:7	0 V AC/DC	0 V DC	0 V DC	
X1:8	24 V AC/DC	24 V DC	24 V DC	
X2:1		Start release (output)	Start release (output)	
X2:2		Status OSSD (output)	Status OSSD (output)	
X2:3	Not placed on board	n.c.	n.c.	
X2:4		n.c.	n.c.	
x2:5		Startup readiness (input)	Startup readiness (input)	

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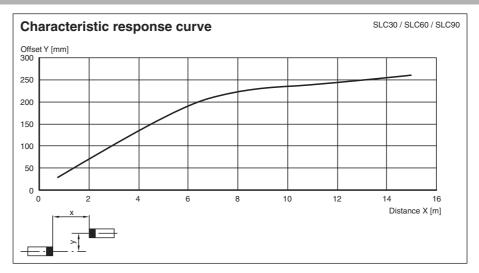
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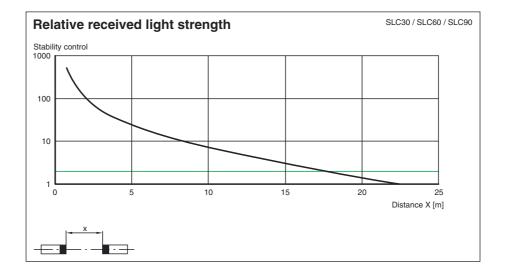
Technical data		
General specifications		
Effective detection range	0.2 15 m	
Light source	IRED	
Light type	modulated infrared light TÜV, UL	
Approvals Tests	IEC/EN 61496	
Safety type according to IEC/EN 6		
Marking	CE	
Width of protected area	0.2 15 m	
Protection field height	150 mm	
Number of beams	8	
Operating mode	can be selected with or without start/restart disable	
Optical resolution	30 mm	
Angle of divergence	< 5 °	
Functional safety related parame	ers	
Safety Integrity Level (SIL)	SIL 3	
Performance level (PL)	PL e	
Category	Cat. 4	
Mission Time (T _M)	20 a	
PFH _d	1.35 E-8	
Type	4	
ndicators/operating means		
Operating display	7-segment display in emitter	
Diagnostics display	7-segment display in receiver	
Function display	in receiver:	
. another diopidy	LED red: OSSD off	
	LED green: OSSD on	
	LED yellow: Protected area free, system start-ready	
Pre-fault indication	LED orange	
Controls	switch for start/restart disable, transmission coding	
Electrical specifications		
Operating voltage	U _B 24 V DC (-30 %/+25 %)	
No-load supply current	I ₀ Emitter: ≤ 100 mA receiver: ≤ 150 mA	
Protection class	III	
nput		
Activation current	approx. 10 mA	
Activation time	0.03 1 s	
Test input	Reset-input for system test	
Function input	Start release	
Output		
Safety output	2 separated fail safe semiconductor outputs	
Signal output	PNP each, max. 100 mA for start readiness and OSSD status	
Switching voltage	Operating voltage -2 V	
Switching current	max. 0.5 A	
Response time	10 ms	
·	10 110	
Ambient conditions	0 55 °C (32 131 °F)	
Ambient temperature	· · · · · · · · · · · · · · · · · · ·	
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	
Connection antique		
Connection options	Further electrical connection options on request: Connector M12, 8-pin	
	Connector DIN 43 651 Hirschmann, 6-pin+PE	
	Connector M26x11 Hirschmann, 11-pin+PE	
Material		
Housing	extruded aluminum profile, RAL 1021 (yellow) coated	
Optical face	Plastic pane	
Mass	Per 750 g	
General information		
System components		
Emitter	SLC30-150-T	
Receiver	SLC30-150-R	
Compliance with standards and c	irecti-	
res		
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		
	150 04 400 0 0000 FN 50470 4007	
Standards	IEC 61496-2:2006 EN 50178:1997	

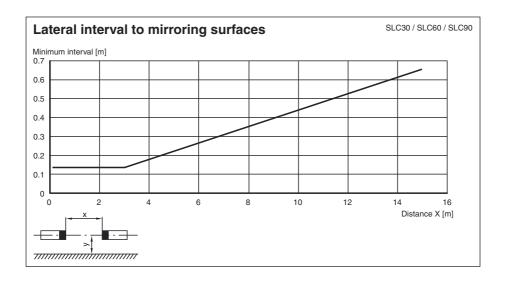
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CE conformity	CE
UL approval	cULus Listed
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.
TÜV approval	TÜV

Curves/Diagrams







Notes

Release date: 2012-08-01 11:54 Date of issue: 2012-08-01 417949_eng.xml

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.
- 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

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