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Model Number

SLCS14

CE

Safety light curtain with 2 separate fail-safe semiconductor outputs

c

US

Features

- ٠ Resolution 14 mm (finger protection)
- Protection field height up to 1200 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- SIL3 (IEC 61508) •
- Degree of protection IP67 •
- Temperature range -35 ... 60°C (-31 ... 140 °F)
- Slim design, mounting on three sides ٠

Product information

The Safety light curtain consists of a transmitter and a receiver unit. The protected area is formed by infrared light beams transmitted from the transmitter unit to the receiver unit. The spacing between the individual light beams determines the minimum obstruction size (14 mm) that can be reliably detected within the entire protected area range.

Electrical connection

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Dimensions



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Receiver unit:

7.0 Height of the protected area

	3 4 5	
Pin	Receiver unit	
1	Restart Interlock (RI)	
2	24 V DC	
3	Relay Monitor (RM)	
4	Status / Select RI-RM	
5	OSSD1	
6	OSSD2	
7	0 V DC	
8	Mode A/B	

1

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Indicators/operating means



1	Power	green
2	Mode A/B, Status	yellow
3	OSSD OFF	red
4	OSSD ON	green
5	Restart/Status	yellow
6	Mode A/B	yellow

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Technical data General specifications Effective detection range

Protection field height

Angle of divergence Ambient light limit UL File Number

Mission Time (T_M)

Status indicator

Operating voltage No-load supply current

Protection class

Power consumption

Electrical specifications

Functional safety related parame

Safety Integrity Level (SIL) Performance level (PL)

Indicators/operating means Operation indicator Function indicator

Operating mode Optical resolution

Light source Light type

Category

PFHd Туре

		Accessories	
		OMH-SLCT-01	
	0.4 8 m IRED	Quick clamp and adjustment system	
	modulated infrared light, 850 nm	OMH-SLCT-02	
	see Table 1, max. 1200 mm	Attachment aid for OMH-SLCT-01	
	Startup/restart disable, deactivateable		
	14 mm	OMH-SLCT-03	
	< 5 °	Mounting bracket including adjustment	
	Not sensitive to ambient light in accordance with IEC 61496-2	OMH-SLCT-04	
	E215245	Mounting bracket including adjustment	
eters		(with loose bearing)	
	SIL 3	(with loose bearing)	
	PL e Cat. 4	OMH-SLCT-05	
	20 a	Mounting bracket including adjustment	
	Depending on the protection field height; see Manual	OMH-SLCT-06	
	4	Swivel Bracket	
		Swiver bracket	
	green: Power on	TR 14/30/50/60	
	Green: OSSD ON , Red: OSSD OFF	Test rod for safety light curtain SLCT	
	Transmitter unit: LED yellow: Mode, test or error		
	Receiver: LED yellow: Start readiness, function reserve or error	AA SLCT-01	
		Profile alignment aid; simplified alignment	
UB	24 V DC (-20%, +30%) ; Power supply with safe isolation: 24 V DC	of the SLCS and SLCT safety light	
I ₀	Transmitter unit:≤ 150 mA	curtains	
.0	Receiver: ≤ 150 mA (without outputs)	OMH-SLCT-100-1200	
	III , IEC 61140	Mounting base for floor mounting and	
P ₀	Transmitter unit: 5 W	cover plate	
	Receiver: 15 W	•	
	Transmitter unit test	OMH-SLCT-100-2100	
	Break contact	Mounting base for floor mounting and	
	24 V DC	cover plate	
	5 mA	OMH-SLCT-100-2500	
		Mounting base for floor mounting and	
	Transmitter unit, mode A/B	cover plate	
	Beam Code A: open or 0 V		
	Beam Code B: 24 V DC, 5 mA	OMH-SLCT-110-1200	
	Dessiver unit valey meniter	Mounting base for floor mounting with	
	Receiver unit relay monitor Break contact	rear panel and cover plate	
	24 V DC	OMH-SLCT-110-1500	
	5 mA	Mounting base for floor mounting with	
		rear panel and cover plate	
	Receiver unit, start release		
	Break contact	OMH-SLCT-110-2100	
	5 mA	Mounting base for floor mounting with	
		rear panel and cover plate	
	Receiver unit, mode A/B (see transmitter unit, mode A/B)	OMH-SLCT-110-2500	
		Mounting base for floor mounting with	
	see Table 1, max. 54 ms	rear panel and cover plate	
	Receiver unit OSSD		
	PNP semiconductor, monitored for short and cross circuits	OMH-SLCT-120-1200	
	$ON: U_B - 2 V; OFF: < 1 V$	Side protection for mounting base	
	ON: max. 0.1 A; OFF: < 5 μA	OMH-SLCT-120-1500	
		Side protection for mounting base	
	Receiver signal output start readiness		
	PNP-semiconductor, short-circuit protected, 0.1A	OMH-SLCT-120-2100	
		Side protection for mounting base	
	ISO 13849-1 ; EN 61508 part1-4	OMH-SLCT-120-2500	
	EN 61496-1 ; IEC 61496-2	Side protection for mounting base	
	-35 60 °C (-31 140 °F)	OMH-SLCT-200	
	-35 70 °C (-31 158 °F)	Floor mount	
	max. 95 %, not condensing	SLCT-M-01-1200	
	see table 2	Inclined mirror for stable 90° deflection	
	IP67, For indoor use only	with cover plate	
		SI CT-M-01-1500	
		SI (1 - M-111 - 1500)	

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Input 1 Input type Input format Switching voltage Input current Input 2 Input type Function Input 3 Input type Input format Switching voltage Input current Input 4 Input type Input format Input current Input 5 Input type Output Response time Output 1 Output type Signal output Switching voltage Switching current Output 2 Output type Signal output Conformity Functional safety Product standard Ambient conditions Ambient temperature Storage temperature Relative humidity Mechanical specifications Housing length L Degree of protection

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Germany: +49 621 776 4411 fa-info@us.pepperl-fuchs.com fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

SLCT-M-01-1500

with cover plate



Inclined mirror for stable 90° deflection

2

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Connection	Transmitter unit: 4-pin, M12 x 1 connector Receiver: 8-pin, M12 x 1 connector Cable cross section min. 0.25 mm ² Max. cable length 50 m	
Material		
Housing	extruded aluminum section, gold anodized	
Optical face	Plastic pane, Transparent polycarbonate	
Mass	see table 2	
General information		
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.	
Approvals and certificates		
CE conformity	CE	
UL approval	cULus Listed	
CCC approval	CCC approval / marking not required for products rated ≤36 V	
TÜV approval	TÜV	
Additional information		

Table 1 - Response time:

Height of the protected area [mm]	Response time [ms]
100	11
200	15
300	19
400	23
500	26
600	30
700	34
800	38
900	42
1000	46
1100	50
1200	54

Table 2 - Total length and weight:

Height of the protected area [mm]	Total length of transmitter/receiver unit [mm]	Weight of transmitter/receiver unit [g]
100	219	140
200	319	200
300	419	250
400	519	310
500	619	370
600	719	430
700	819	480
800	919	540
900	1019	600
1000	1119	650
1100	1219	710
1200	1319	760





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