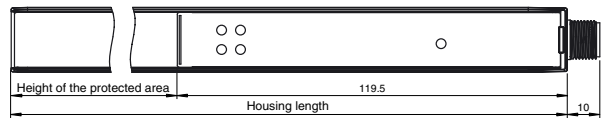
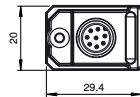
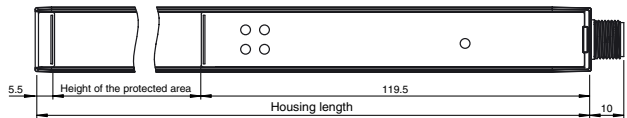




**Dimensions**



Height of the protected area ≤ 1200 mm



Height of the protected area > 1200 mm

**Model Number**

**SLCT30 Series**  
 Safety light curtain  
 with 2 separate fail-safe semiconductor outputs

**Features**

- Resolution 30 mm (hand protection)
- Protection field height up to 2400 mm
- Self-testing (type 2 as per IEC/EN 61496-1)
- SIL2 (IEC 61508)
- Temperature range -30 ... 60°C (-22 ... 140 °F)
- Slim design, mounting on three sides

**Description**

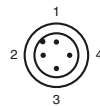
The Safety light curtain consists of a transmitter and a receiver unit. The protected area is formed by infrared light beams transmitted from the transmitter unit to the receiver unit. The spacing between the individual light beams determines the minimum obstruction size (30 mm) that can be reliably detected within the entire protected area range.

**Accessories**

- OMH-SLCT-01**  
Quick clamp and adjustment system
- OMH-SLCT-02**  
Attachment aid for OMH-SLCT-01
- OMH-SLCT-03**  
Mounting bracket including adjustment
- OMH-SLCT-04**  
Mounting bracket including adjustment (with loose bearing)
- OMH-SLCT-05**

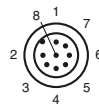
**Electrical connection**

Transmitter unit:



Pin	Transmitter unit
1	24 V DC
2	Mode A/B
3	0 V DC
4	Test

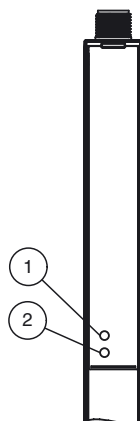
Receiver unit:



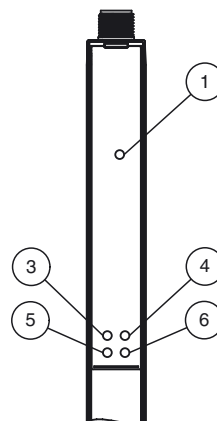
Pin	Receiver unit
1	Restart Interlock (RI)
2	24 V DC
3	Relay Monitor (RM)
4	Status / Select RI-RM
5	OSSD1
6	OSSD2
7	0 V DC
8	Mode A/B

**Indicators/operating means**

Transmitter unit



Receiver unit



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

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**Technical data****General specifications**

Effective detection range	0.2 ... 8 m
Light source	IREDD
Light type	modulated infrared light , 850 nm
Approvals	TÜV, cULus
Tests	EN IEC 61496, IEC 61508 part 1,2,3,4, EN ISO 13849, EN 50178, EN 60870-5-1, EN 61000-6-3
Safety type according to IEC/EN 61496	2
Safety Integrity Level (SIL)	SIL2 (IEC 61508)
Performance level (PL)	PL d (EN ISO 13849-1)
Marking	CE (2006/42/EG)
Protection field height	see Table 1, max. 2400 mm
Operating mode	Startup/restart disable, deactivateable
Optical resolution	30 mm
Angle of divergence	5 °
Ambient light limit	Not sensitive to ambient light in accordance with EN 61496-2

**Functional safety related parameters**

Safety Integrity Level (SIL)	SIL 2
Performance level (PL)	PL d
Category	Cat. 3
Mission Time (T <sub>M</sub> )	20 a
Type	2

**Indicators/operating means**

Operating display	green: Power on
Function display	Green: OSSD ON , Red: OSSD OFF
Status indication	Emitter unit: LED yellow: Mode, test or error Receiver: LED yellow: Start readiness, function reserve or error

**Electrical specifications**

Operating voltage	U <sub>B</sub>	24 V DC (-20%, +30%) ; Power supply with safe isolation: 24 V DC
No-load supply current	I <sub>0</sub>	Emitter unit: ≤ 150 mA Receiver: ≤ 150 mA (outputs open)
Protection class		III , IEC 61140
Power consumption	P <sub>0</sub>	Emitter unit: 5 W Receiver: 15 W

**Input 1**

Input type	Emitter unit test
Input format	Break contact
Switching voltage	24 V DC
Input current	5 mA

**Input 2**

Input type	Emitter unit, mode A/B
Function	Beam Code A: open or 0 V Beam Code B: 24 V DC, 5 mA

**Input 3**

Input type	Receiver unit relay monitor
Input format	Break contact
Switching voltage	24 V DC
Input current	5 mA

**Input 4**

Input type	Receiver unit, start release
Input format	Break contact
Input current	5 mA

**Input 5**

Input type	Receiver unit, mode A/B (see emitter unit, mode A/B)
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**Output**

Response time	see Table 1, max. 38 ms
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**Output 1**

Output type	Receiver unit OSSD
Signal output	PNP semiconductor , monitored for short and cross circuits
Switching voltage	ON: U <sub>B</sub> - 2 V; OFF: < 1 V
Switching current	ON: max. 0.1 A; OFF: < 5 µA

**Output 2**

Output type	Receiver signal output start readiness
Signal output	PNP-semiconductor, short-circuit protected, 0.1A

**Ambient conditions**

Ambient temperature	-30 ... 60 °C (-22 ... 140 °F)
Storage temperature	-30 ... 70 °C (-22 ... 158 °F)
Relative humidity	max. 95 %, not condensing

**Mechanical specifications**

Housing length L	see table 2
Protection degree	IP65 , For indoor use only
Connection	Emitter unit: connector M12 x 1, 4-pin Receiver: 8-pin, M12 x 1 connector Cable cross section min. 0.25 mm <sup>2</sup> Max. cable length 50 m

<b>Material</b>	
Housing	extruded aluminum section , Silver anodized
Optical face	Plastic pane , Transparent polycarbonate
Mass	see table 2
<b>General information</b>	
System components	
Emitter	SLCT30 Series -T
Receiver	SLCT30 Series -R

<b>Approvals and certificates</b>	
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

**Additional information**

Table 1 - Response time:

Height of the protected area [mm]	Response time [ms]
100	8
200	10
300	11
400	12
500	14
600	15
700	16
800	17
900	19
1000	20
1100	21
1200	23
1300	24
1400	25
1500	26
1600	28
1700	29
1800	30
1900	32
2000	33
2100	34
2200	35
2300	37
2400	38

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
1300	1425	820
1400	1525	880
1500	1625	940
1600	1725	990
1700	1825	1050
1800	1925	1100
1900	2025	1160
2000	2125	1210
2100	2225	1270

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Height of the protected area [mm]	Total length of transmitter/receiver unit [mm]	Weight of transmitter/receiver unit [g]
2200	2325	1320
2300	2425	1380
2400	2525	1440

## System accessories

### Mounting aid

OMH-SLCT-01	Press & Release quick clamp and adjustment system
OMH-SLCT-02	Attachment aid for Press & Release quick clamp and adjustment system
OMH-SLCT-03	Mounting aid with fixed bearing (long) for mounting or used to connect 2 light gids
OMH-SLCT-04	Mounting aid with loose bearing (narrow)

### Other accessories

TR 14/30/50/60	Test rod for 14 mm, 30 mm, 50 mm or 60 mm resolution
AA SLCT-01	Alignment aid (box level to snapped into the lateral grooves), Angle error: < 1°

### Connecting cable

V1-G-BK2M-PUR-UL:	Cable, M12, 4-pin, 2 m, UL-connector
V1-G-BK5M-PUR-UL:	Cable, M12, 4-pin, 5 m, UL-connector
V1-G-BK10M-PUR-UL:	Cable, M12, 4-pin, 10 m, UL-connector
V19-G-BK2M-PUR-UL:	Cable, M12, 8-pin, 2 m, UL-connector
V19-G-BK5M-PUR-UL:	Cable, M12, 8-pin, 5 m, UL-connector
V19-G-BK10M-PUR-UL:	Cable, M12, 8-pin, 10 m, UL-connector