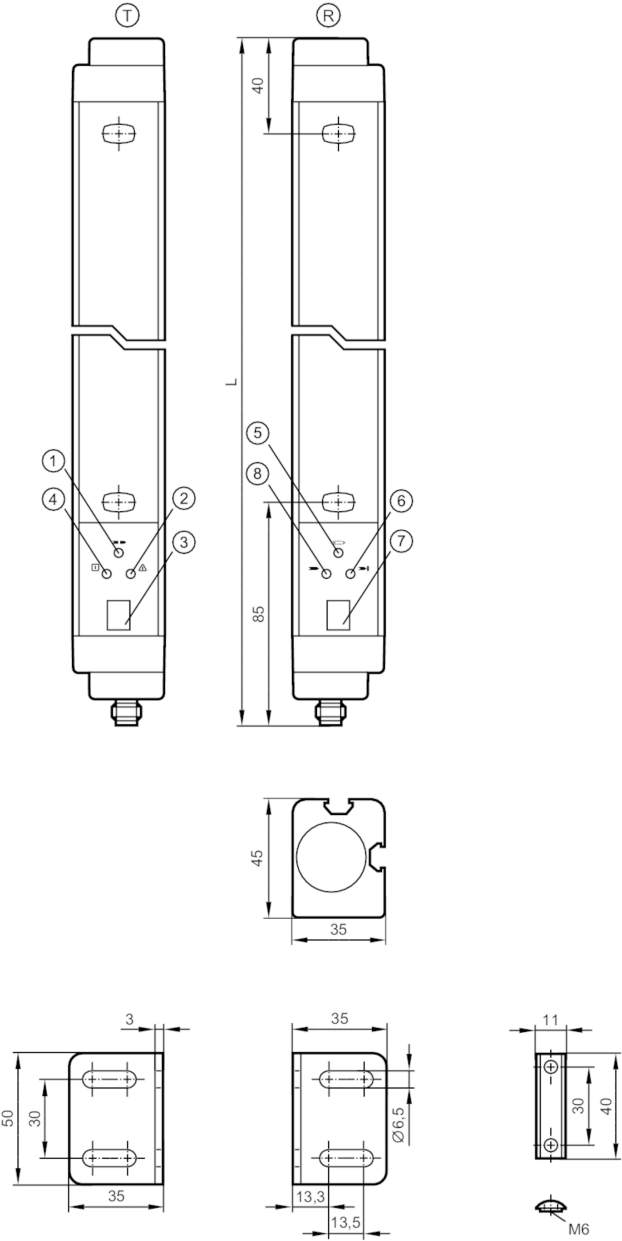




Safety light curtain

OYA1210-20-4-18-P-1-B

For 8-pole sockets the core colours are not standardised.
Please note the wiring of the sensor and the sockets (see data sheet).



- T transmitter
- R receiver
- 1 LED yellow
- 2 LED red
- 3 7-segment LED display
- 4 LED green
- 5 LED yellow
- 6 LED red
- 7 7-segment LCD display
- 8 LED green



Product characteristics

Type of light	infrared light
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Safety light curtain

OYA1210-20-4-18-P-1-B

Electrical design	PNP	
Protection	IP 65	
Application		
Protective function	access prevention hand protection	
Electrical data		
Operating voltage tolerance [%]	20	
Operating voltage [V]	24 DC	
Protection class	III	
Reverse polarity protection	yes	
Power-on delay time [s]	< 18	
Type of light	infrared light	
Wave length [nm]	950	
Receiver		
Current consumption [mA]	125	
Transmitter		
Current consumption [mA]	83	
Outputs		
Electrical design	PNP	
Number of OSSD outputs	2	
Max. current load per OSSD output [mA]	500; (24 V)	
Short-circuit protection	yes	
Detection zone		
Protected area height [mm]	1210	
Resolution (detection capacity d) [mm]	20	
Protection area width (low light intensity) [m]	0...6	
Protection area width (high light intensity) [m]	3...18	
Floating blanking	yes	
Response times		
Response time [ms]	19	
Operating conditions		
Applications	class C to EN 60654-1 weatherproof application	
Ambient temperature [°C]	0...55	
Max. relative air humidity [%]	95	
Protection	IP 65	
Tests / approvals		
EMC	IEC 61496-1	
Shock resistance	IEC 61496-1	
Vibration resistance	IEC 61496-1	
Safety classification		
ESPE type (IEC 61496-1)	4	



Safety light curtain

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Complies with the requirements		ISO 13849-1: 2015 category 4, PL e
		IEC 61508 SIL 3
		IEC 62061 SIL 3
Mission time TM	[h]	175200
PFH	[1/h]	2,1E-08

Mechanical data		
Weight	[g]	6345
Dimensions	[mm]	1311 x 35 x 45
Materials		housing: aluminium; front pane: PC
Length L	[mm]	1311

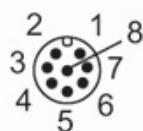
Displays / operating elements		
Display	transmitter	3 x LED
	transmitter	7-segment LCD display
	receiver	3 x LED
	receiver	7-segment LCD display

Accessories		
Items supplied		mounting bracket: 4
		slot nuts: 4
		screws

Remarks		
Pack quantity		1 pcs.

Electrical connection - receiver

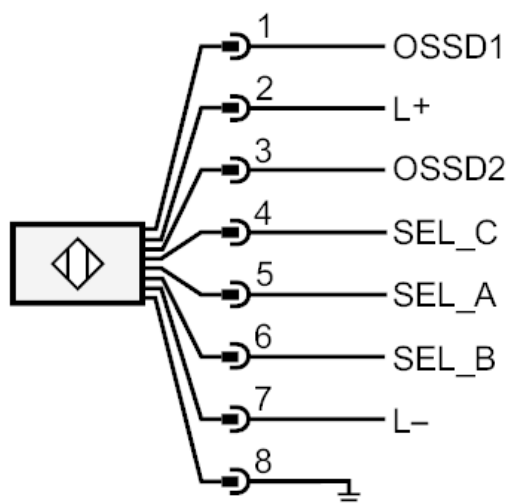
Connector: 1 x M12; coding: A; Maximum cable length: 100 m; for wire cross-section 0.34 mm²



Safety light curtain

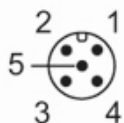
OYA1210-20-4-18-P-1-B

Connection



Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

