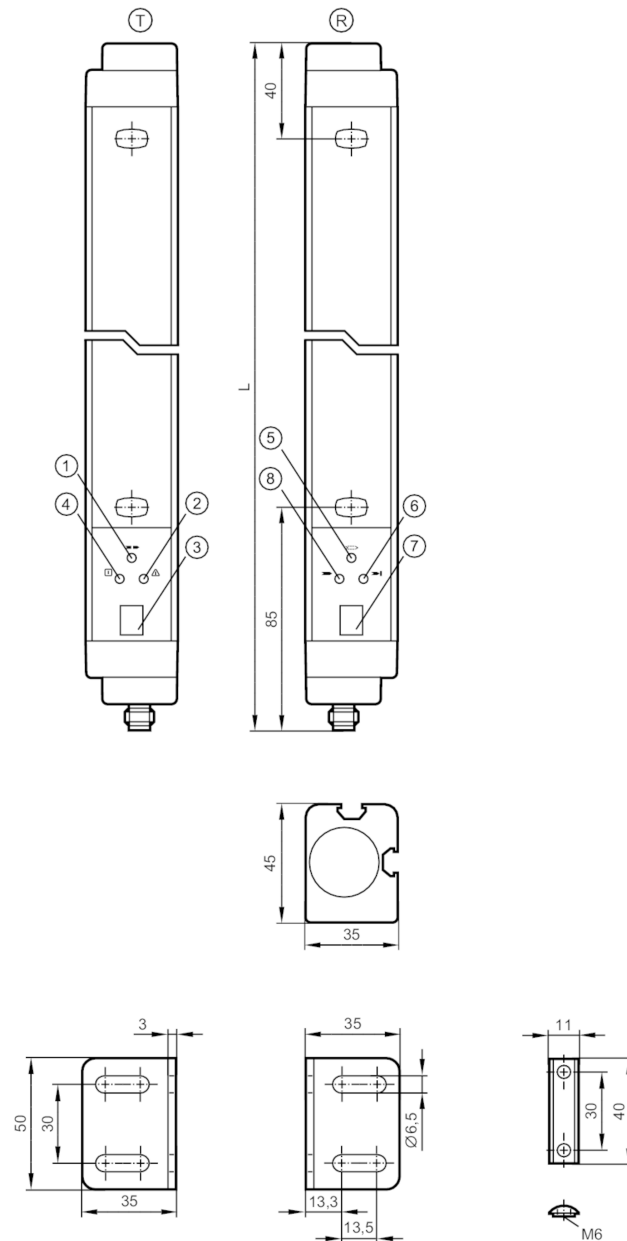


Safety light curtain

OYA0910-20-4-18-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

OYA0910-20-4-18-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]	910
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]	15.5
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]	1,8E-08

Mechanical data

Weight	[g]	5030
Dimensions	[mm]	1011 x 35 x 45
Materials	housing: aluminium; front pane: PC	
Length L	[mm]	1011

Displays / operating elements

Display	transmitter	3 x LED
	transmitter	7-segment LCD display
	receiver	3 x LED
	receiver	7-segment LCD display

Accessories

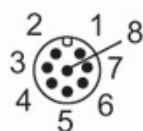
Items supplied	mounting bracket: 4	
	slot nuts: 4	
	screws	

Remarks

Pack quantity	1 pcs.
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Electrical connection - receiver

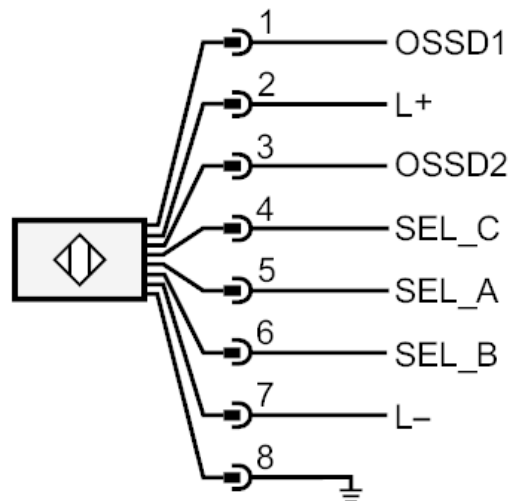
Connector: 1 x M12; coding: A; Maximum cable length: 100 m; for wire cross-section 0.34 mm²



Safety light curtain

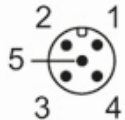
OYA0910-20-4-18-P-1-B

Connection



Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

