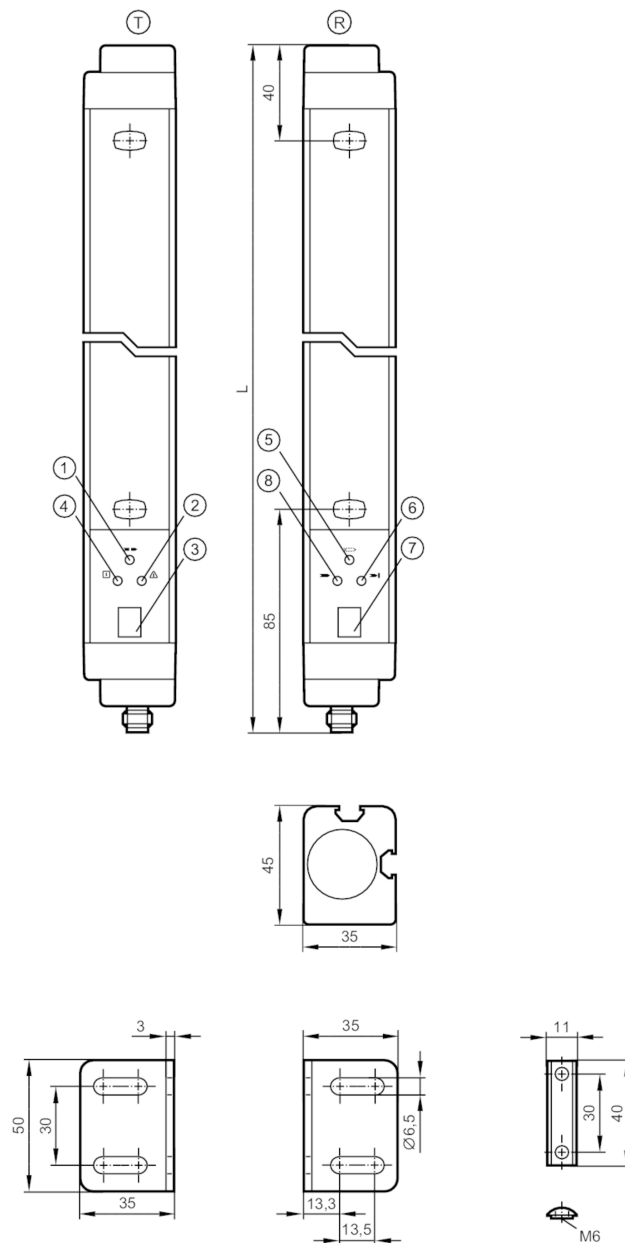


OYA0910-20-4-18-P-1-B

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



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

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

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

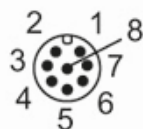
Accessories

Items supplied	mounting bracket: 4	
	slot nuts: 4	
	screws	

Remarks

Pack quantity	1 pcs.
---------------	--------

Electrical connection - receiver

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

Safety light curtain

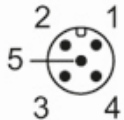
OYA0910-20-4-18-P-1-B

Connection



Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

