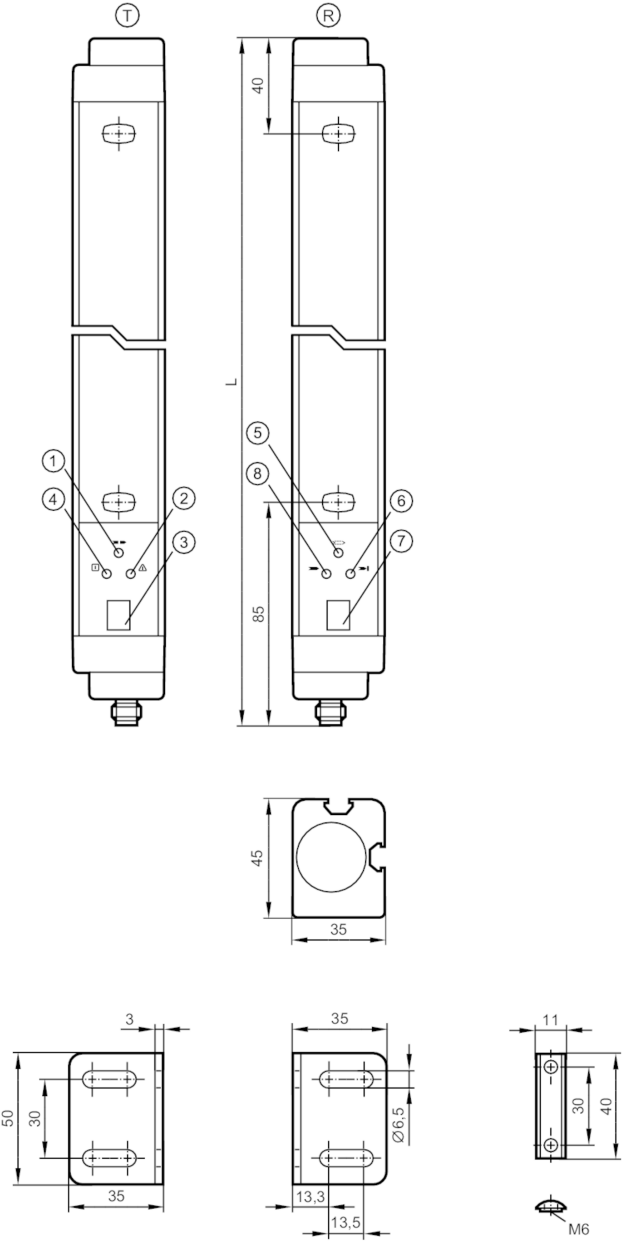




Safety light curtain

OYA0910-40-4-18-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



Safety light curtain

OYA0910-40-4-18-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]	40
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]	10.5
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

OYA0910-40-4-18-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]	1,3E-08

Mechanical data

Weight	[g]	5125
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

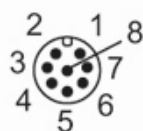
Accessories

Items supplied	mounting bracket: 4
	slot nuts: 4
	screws

Remarks

Pack quantity	1 pcs.
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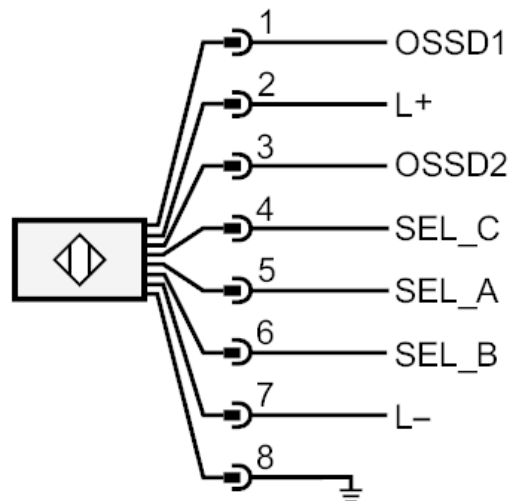
Electrical connection - receiver

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

Safety light curtain

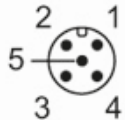
OYA0910-40-4-18-P-1-B

Connection



Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

