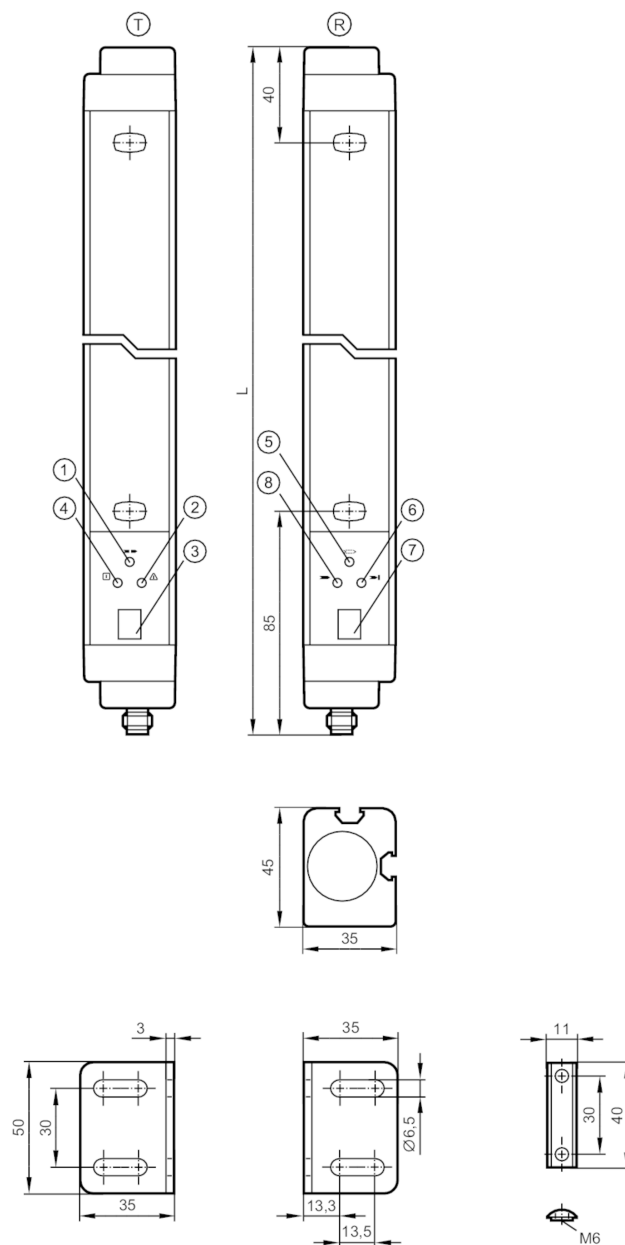




Safety light curtain

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

For 8-wire cordsets the core colors are not standardized.
Please note the wiring of the sensor and the cordsets (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





Safety light curtain

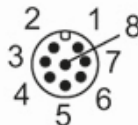
OYA1210-20-4-18-P-1-B

Product characteristics		
Type of light		Infrared light
Dimensions	[mm]	1311 x 35 x 45
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
Monitoring range		
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
Reaction 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 light curtain

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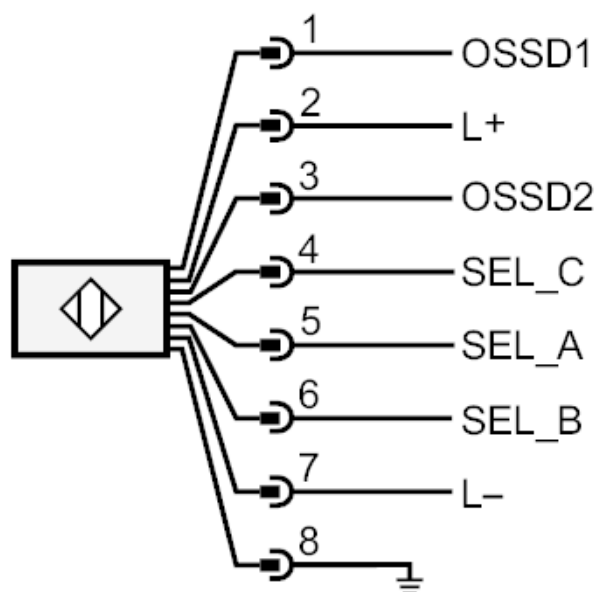
Safety classification		
ESPE type (IEC 61496-1)	4	
ISO 13849-1	Category 4, PL e	
IEC 61508	SIL 3	
IEC 62061	SIL cl 3	
Mission time TM	[h]	175200
Safety-related reliability PFHD	[1/h]	2.1 E -08
Mechanical data		
Weight	[g]	6345
Dimensions	[mm]	1311 x 35 x 45
Material	housing: aluminum; front lens: PC	
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	Assembly angle: 4	
	Slot nuts: 4	
	screws	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - receiver		
Connector: 1 x M12; Maximum cable length: 100 m; for wire cross-section 0.34 mm²		
		



Safety light curtain

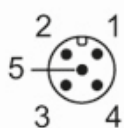
OYA1210-20-4-18-P-1-B

Connection



Electrical connection - transmitter

Connector: 1 x M12



OY819S



Safety light curtain

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

Connection

