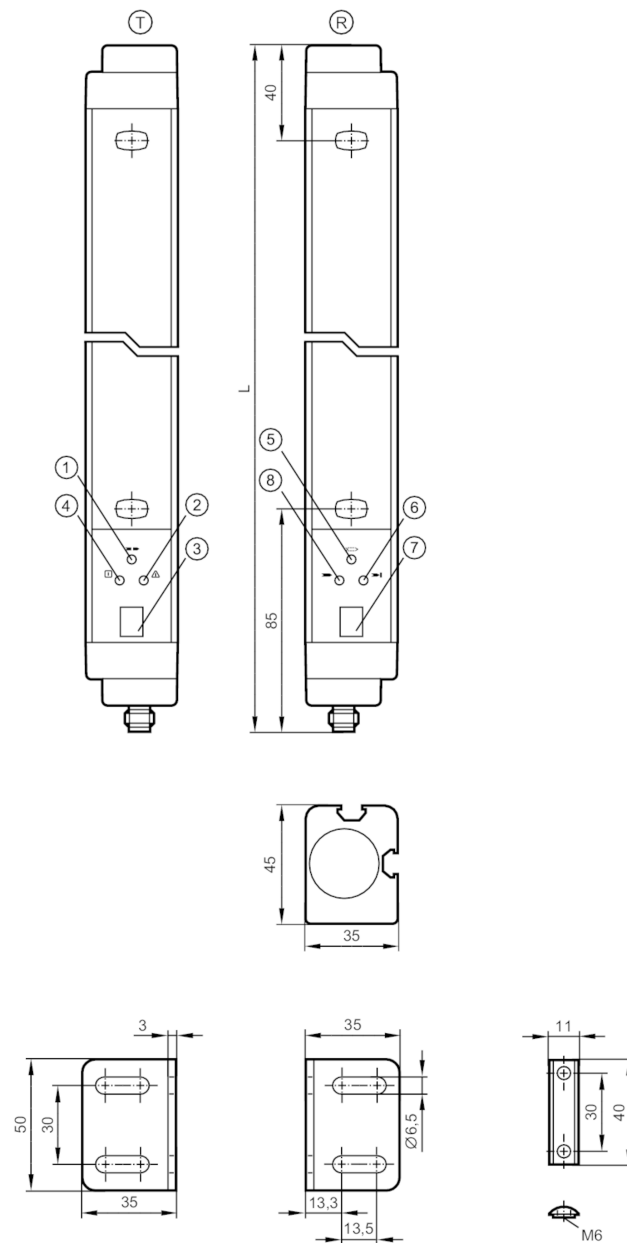


Safety light curtain

OYA1210-40-4-18-P-1-B



- | | |
|---|-----------------------|
| 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 |



Application

Protective function

access prevention hand protection



Safety light curtain

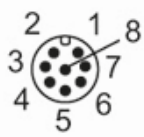
OYA1210-40-4-18-P-1-B

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]	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]	12.5
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		
ISO 13849-1		category: 4, PL: e
IEC 61508		SIL 3
IEC 62061		SILCL 3
Mission time TM	[h]	175200
Safety-related reliability PFHD	[1/h]	1.5 E -08



Safety light curtain

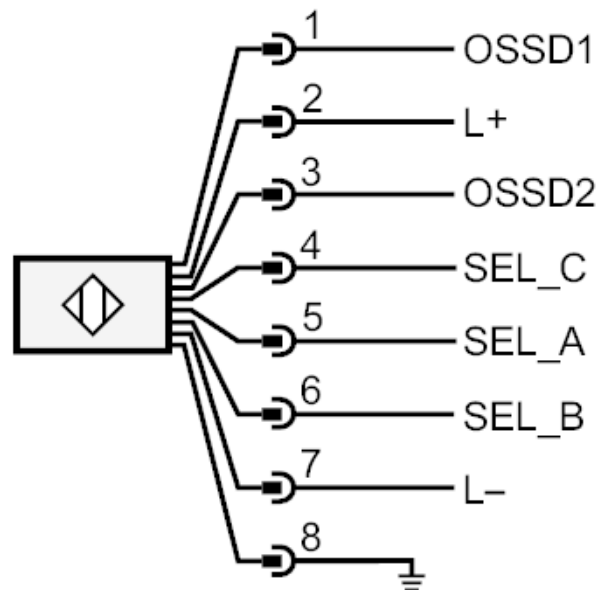
OYA1210-40-4-18-P-1-B

Mechanical data		
Weight	[g]	3336
Dimensions	[mm]	1311 x 35 x 45
Materials		housing: aluminium; front lens: PC
Length L	[mm]	1311
Displays / operating elements		
Display	transmitter	3 LED
	transmitter	1 7-segment LCD display
	receiver	3 LED
	receiver	1 7-segment LCD display
Accessories		
Accessories (supplied)	mounting bracket: 4	
	slot nuts: 4	
	screws	
Remarks		
Notes	For 8-pole sockets the core colours are not standardised.; Please note the wiring of the sensor and the sockets (see data sheet).	
Pack quantity	1 pcs.	
Electrical connection - receiver		
Connector: 1 x M12; Maximum cable length: 100 m; for wire cross-section 0.34 mm ²		
		

Safety light curtain

OYA1210-40-4-18-P-1-B

Connection



Electrical connection - transmitter

Connector: 1 x M12



OY829S



Safety light curtain

OYA1210-40-4-18-P-1-B

Connection

