

OY121S

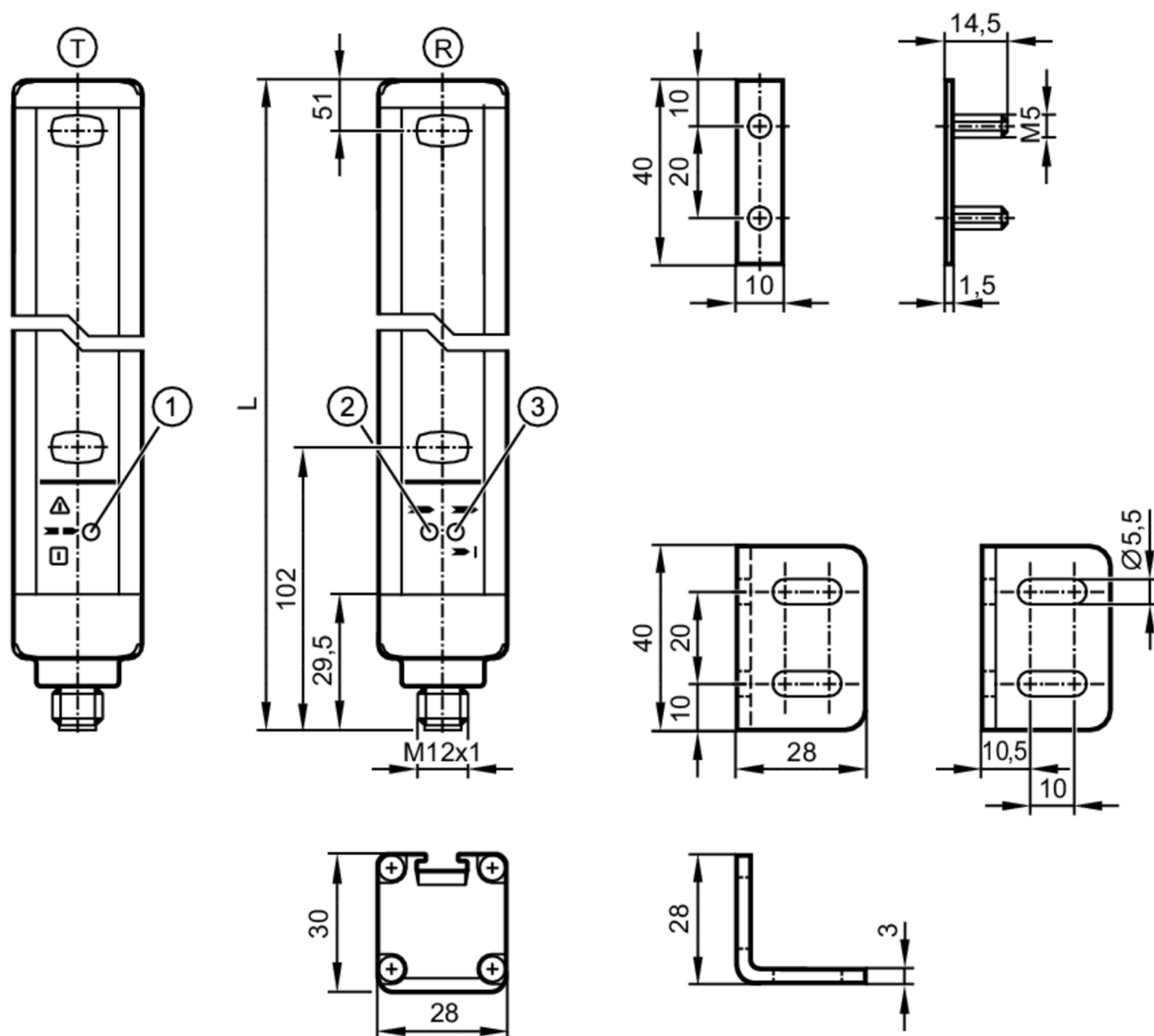


Safety light grid

OYA0810-03-4-20-P-1

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 three-colour red / green / orange |
| 2 | LED 2-colour yellow/blue |
| 3 | LED 2-colour red/green |



Product characteristics

Type of light	infrared light
Electrical design	PNP
Protection	IP 65; IP 67

Application

Protective function	access prevention body protection
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Safety light grid

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Electrical data		
Operating voltage tolerance	[%]	20
Operating voltage	[V]	24 DC
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 2
Type of light		infrared light
Wave length	[nm]	950
Receiver		
Current consumption	[mA]	83
Transmitter		
Current consumption	[mA]	42
Outputs		
Electrical design		PNP
Number of OSSD outputs		2
Max. current load per OSSD output	[mA]	400; (24 V)
Short-circuit protection		yes
Detection zone		
Protected area height	[mm]	810
Number of beams		3
Protection area width (low light intensity)	[m]	0...10
Protection area width (high light intensity)	[m]	3...20
Response times		
Response time	[ms]	2.5
Operating conditions		
Applications		class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-10...55
Max. relative air humidity	[%]	95
Protection		IP 65; IP 67
Tests / approvals		
EMC	IEC 61496-1	
Shock resistance	IEC 61496-1	
Vibration resistance	IEC 61496-1	
Safety classification		
ESPE type (IEC 61496-1)		4
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]	1,0E-08

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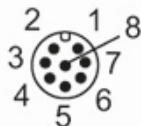
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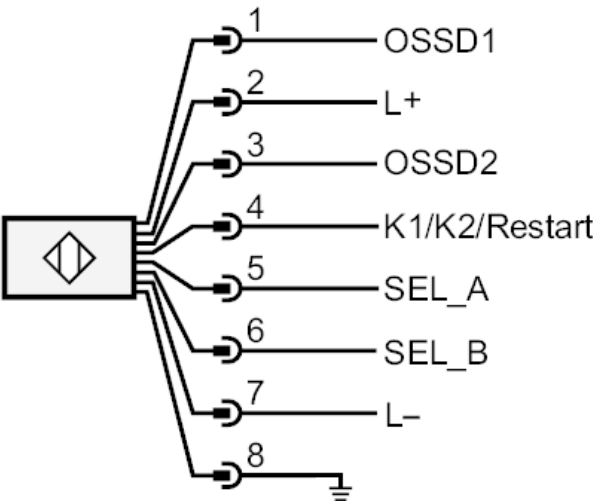
Mechanical data		
Weight	[g]	3205
Dimensions	[mm]	953 x 28 x 30
Materials		housing: aluminium; front pane: PC
Length L	[mm]	953
Displays / operating elements		
Display		LED, yellow
		LED, green
		LED, red
		LED, blue
		LED, orange
Accessories		
Items supplied		mounting bracket: 4
		slot nuts: 4
		Nuts
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



Connection



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Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

