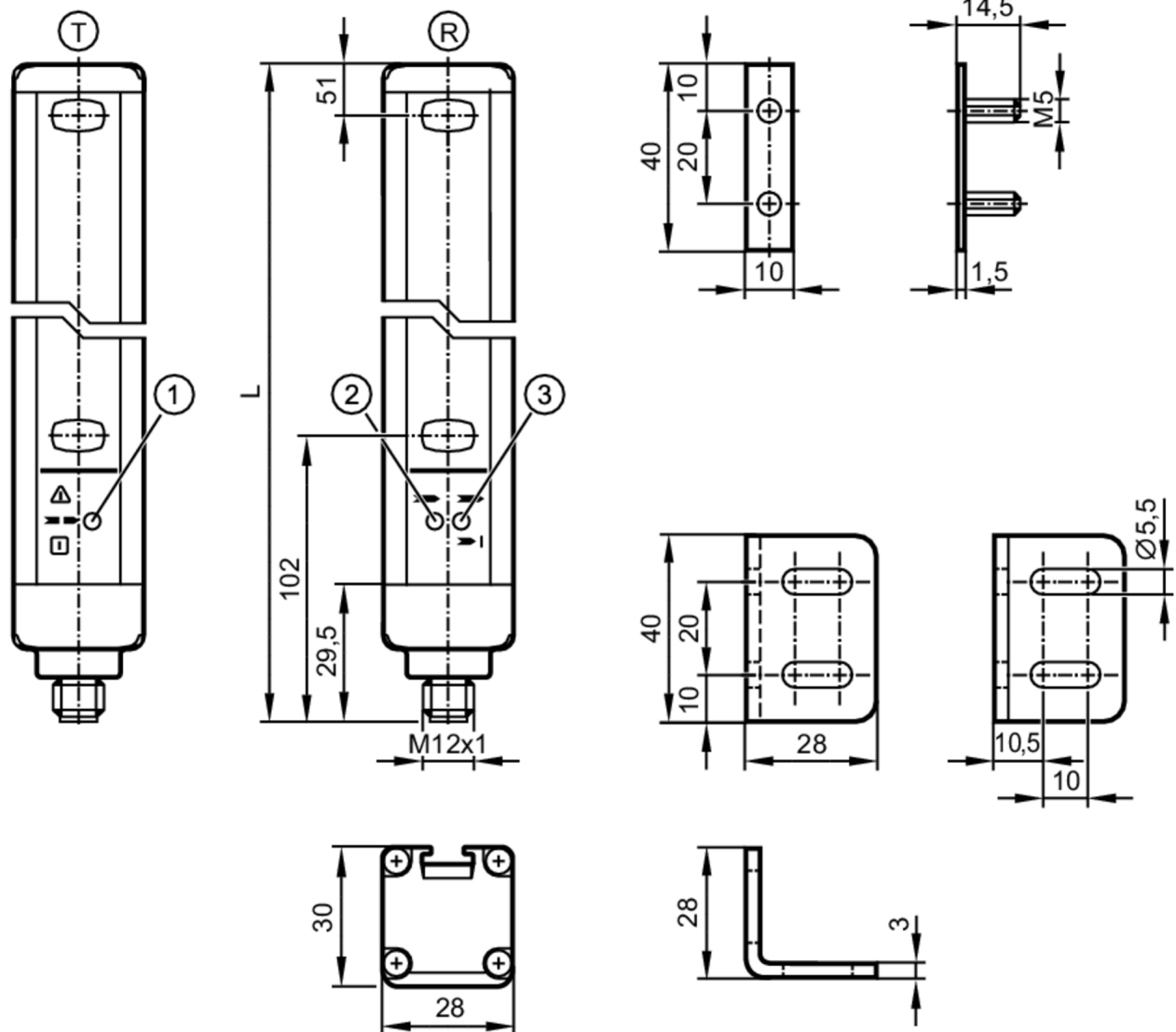


OY120S



safety light grids

OYA0510-02-4-20-P-1



- | | |
|---|---------------------------------------|
| T | transmitter |
| R | receiver |
| 1 | LED three-colour red / green / orange |
| 2 | LED 2-colour yellow/blue |
| 3 | LED 2-colour red/green |



Application

Protective function

access prevention body protection



safety light grids

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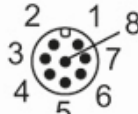
Electrical data		
Operating voltage tolerance	[%]	20
Operating voltage	[V]	24 DC
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 2
Type of light		infrared light
Wave length	[nm]	950
receiver		
Current consumption	[mA]	83
transmitter		
Current consumption	[mA]	42
Outputs		
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]	510
Number of beams		2
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		
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]	9.2E-09

OY120S



safety light grids

OYA0510-02-4-20-P-1

Mechanical data		
Weight	[g]	2355
Dimensions	[mm]	653 x 28 x 30
Materials		housing: aluminium; front lens: PC
Length L	[mm]	653
Displays / operating elements		
Display		LED, yellow
		LED, green
		LED, red
		LED, blue
		LED, orange
Accessories		
Accessories (supplied)		mounting bracket: 4
		slot nuts: 4
		Nuts
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 mm²		
		

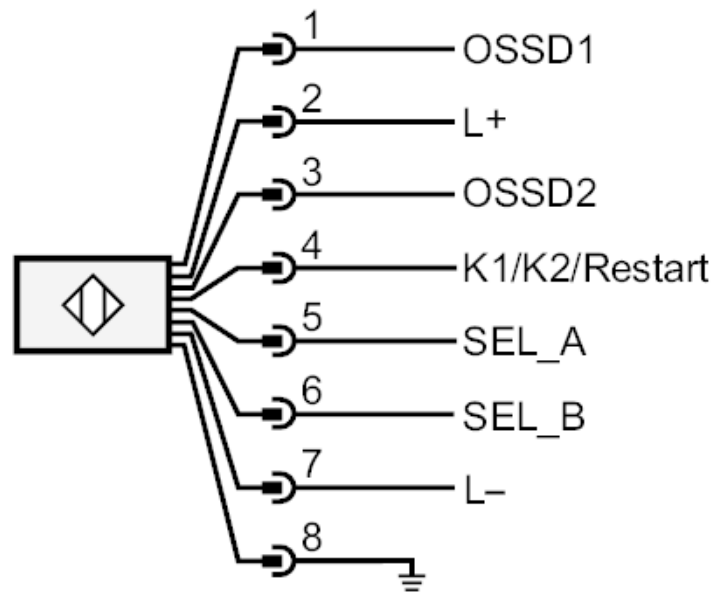
OY120S

safety light grids

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Connection



Electrical connection - transmitter

Connector: 1 x M12



OY120S

safety light grids

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Connection

