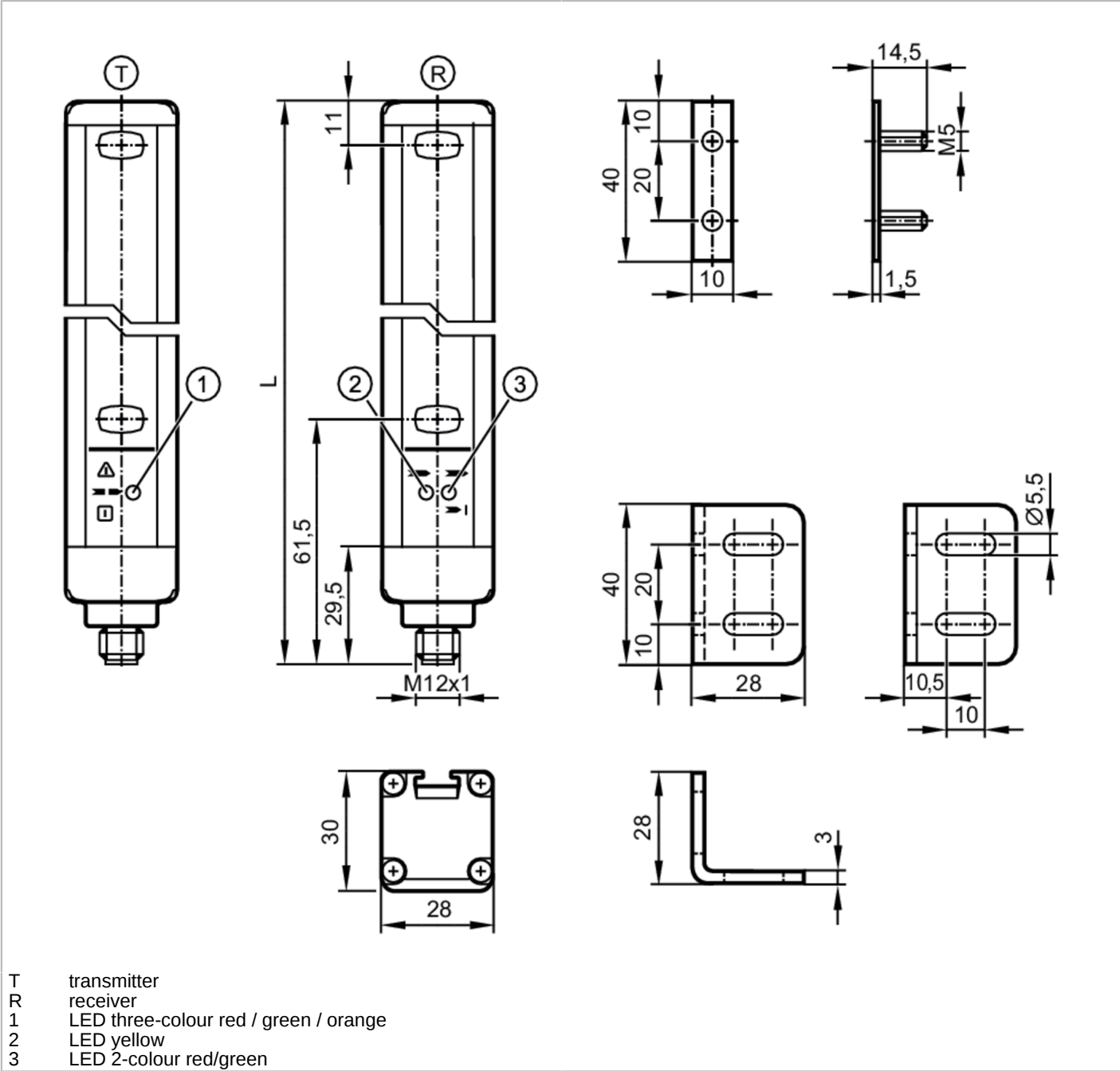




Safety light curtain

OYA0310-50-4-12-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).



Product characteristics	
Type of light	infrared light
Electrical design	PNP
Protection	IP 65; IP 67
Application	
Protective function	access prevention bodies or parts of bodies



Safety light curtain

OYA0310-50-4-12-P-1

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]	310
Resolution (detection capacity d)	[mm]	50
Protection area width (low light intensity)	[m]	0...4
Protection area width (high light intensity)	[m]	3...12
Response times		
Response time	[ms]	4
Operating conditions		
Applications		class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-10...55
Storage temperature	[°C]	-20...70
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]	7,2E-09

OY082S



Safety light curtain

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Mechanical data		
Weight	[g]	1680
Dimensions	[mm]	363 x 28 x 30
Materials		housing: aluminium; front pane: PC
Length L	[mm]	363

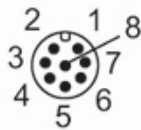
Displays / operating elements		
Display	transmitter	1 x LED
	receiver	2 x LED

Accessories		
Items supplied		mounting bracket: 4
		slot nuts: 4
		Nuts

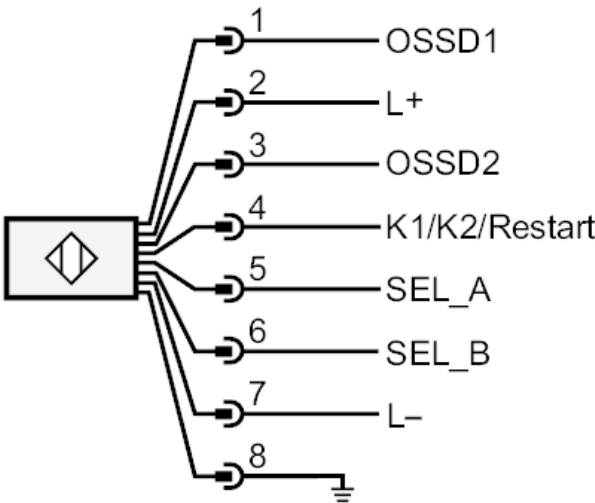
Remarks	
Pack quantity	1 pcs.

Electrical connection - receiver

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



Connection

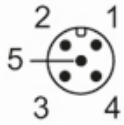


Safety light curtain

OYA0310-50-4-12-P-1

Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

