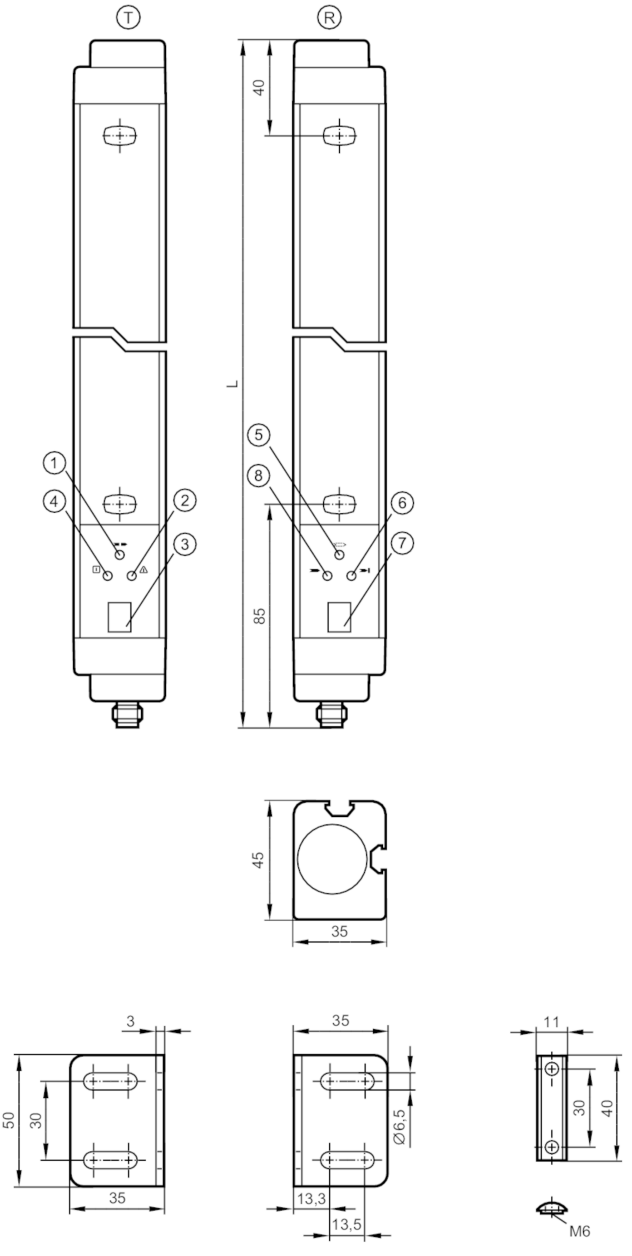
OY801S

Safety light curtain

OYA0160-14-4-05-P-1-B

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 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

Product characteristics

Type of light	infrared light

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Electrical design		PNP
Protection		IP 65
Application		
Protective function		access prevention finger 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
Detection zone		
Protected area height	[mm]	160
Resolution (detection capacity d)	[mm]	14
Protection area width (low light intensity)	[m]	0...3
Protection area width (high light intensity)	[m]	0...5
Floating blanking		yes
Response times		
Response time	[ms]	6
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		
ESPE type (IEC 61496-1)		4

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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]	1E-08

Mechanical data

Weight	[g]	3360
Dimensions	[mm]	261 x 35 x 45
Materials		housing: aluminium; front pane: PC
Length L	[mm]	261

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	mounting bracket: 4
	slot nuts: 4
	screws

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

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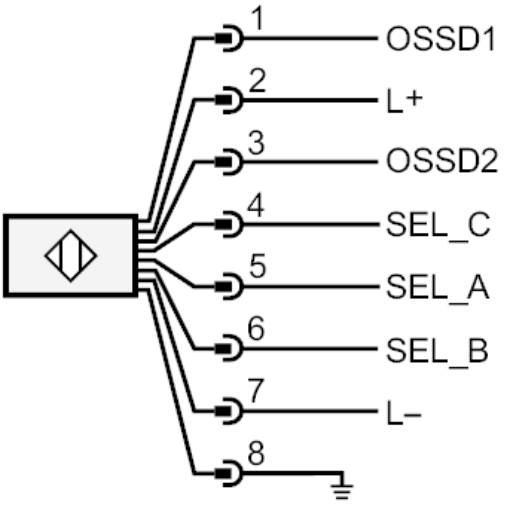
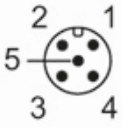
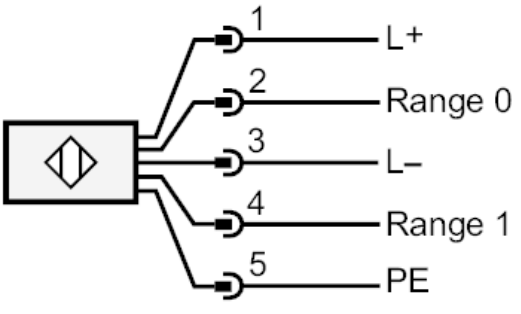
Connection



Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection