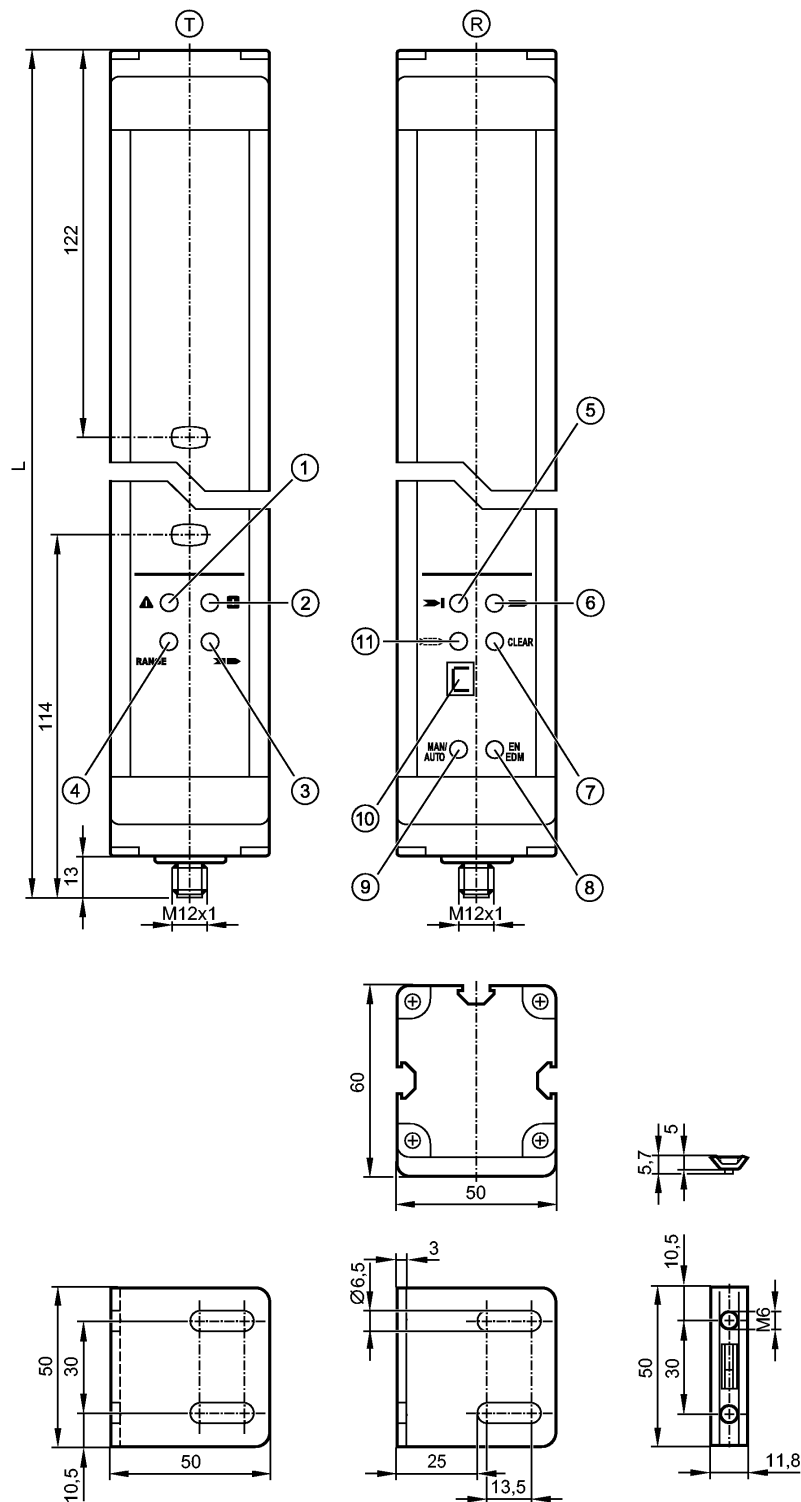


OY953S

OYA0910-04-4-60-P-1

Photoelectric sensors

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.



T: Transmitter
R: Receiver
1: LED (red)
2: LED (green)
3: LED (yellow)
4: LED (orange)
5: LED (red)

6: LED (green)
7: LED (yellow)
8: LED (yellow)
9: LED (yellow)
10: display
11: LED (orange)

OY953S

OYA0910-04-4-60-P-1

Photoelectric sensors

Product characteristics		
Safety light grid		
Length L: 1136 mm		
Connector		
Complies with the requirements:		
type 4 (IEC 61496-1)		
SIL 3 (IEC 61508)		
SILcl 3 (IEC 62061)		
PL e (EN ISO 13849-1)		
Electrical data		
Electrical design		DC PNP
Operating voltage [V]		24 DC (19.2...28.8)
Current consumption		
- Transmitter [mA]		125
- Receiver [mA]		250
Type of light		Infrared light 950 nm
Protection class		III
Reverse polarity protection		yes
Power-on delay time [s]		< 10
Outputs		
Outputs (OSSDs)		2 x PNP
Max. current load per output [mA]		500 (24 V)
Short-circuit protection		yes
Range		
Protected area height [mm]		910
Number of beams		4
Protected area width (range) [m]		8...30 / 18...60
Reaction times		
Response time [ms]		7
Environment		
Applications		Class C to EN 60654-1 weatherproof application
Ambient temperature [°C]		-10...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		
Mission time TM [h]		175200
Safety-related reliability PFHd [1/h]		7.9E-09
MTTFd [Years]		100
DC/CCF/Cat.		98.0 % / 80 % / 4
Mechanical data		
Length L [mm]		1136

OY953S

OYA0910-04-4-60-P-1

Photoelectric sensors

Housing materials	housing: aluminium; window: PC
Weight [kg]	7.69

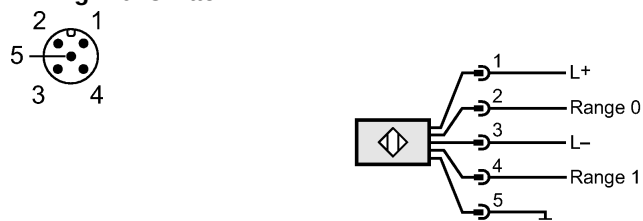
Displays / operating elements

Display	LED yellow LED green LED red LED orange
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Electrical connection

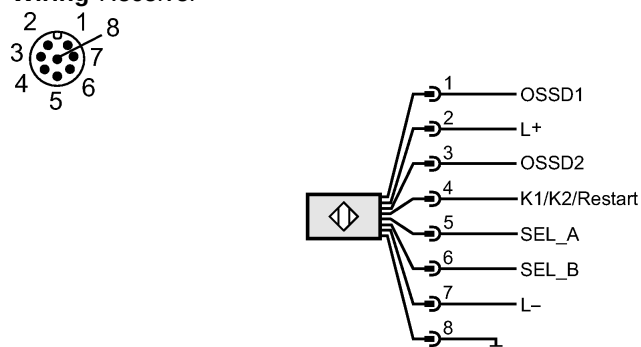
Transmitter	
Connection	M12 connector

Wiring Transmitter



Receiver	
Connection	M12 connector

Wiring Receiver



Max. connection cable length [m]	100 *)
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Accessories

Accessories (included)	6 Mounting angle; 6 Mounting Nuts
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Remarks

Remarks	*) for wire cross-section 1 mm²
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Pack quantity [piece]	1
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Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.