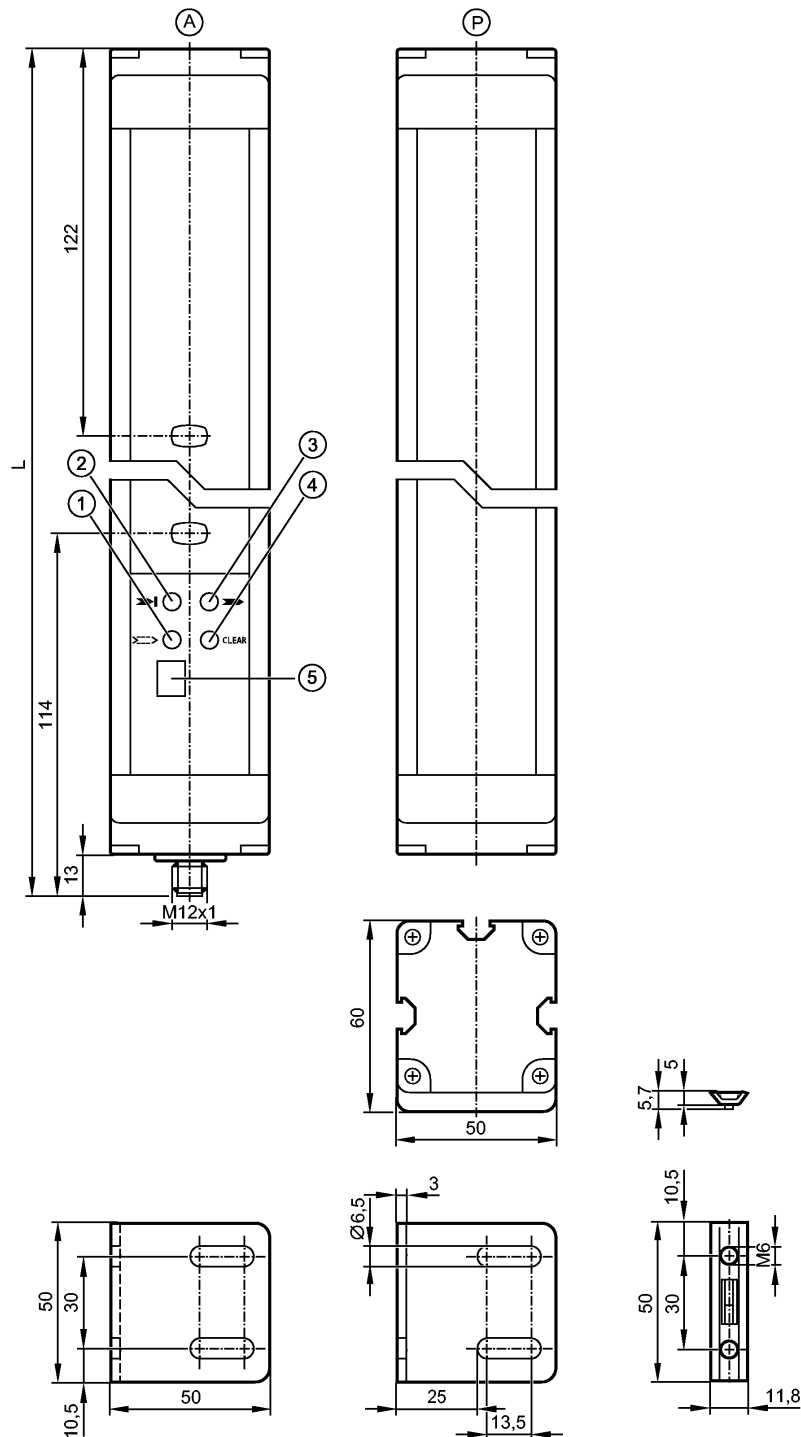


OY903S

OYD0910-04-4-06-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.



A: active element
P: passive element
1: LED (orange)
2: LED (red)

3: LED (green)
4: LED (yellow)
5: display



Product characteristics

Safety light grid

Length L: 1136 mm

Connector

OY903S

OYD0910-04-4-06-P-1

Photoelectric sensors

with active / passive system

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	[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
Short-circuit protection		yes
Range		
Protected area height	[mm]	910
Number of beams		4
Protected area width (range)	[m]	0...6
Reaction times		
Response time	[ms]	10.5
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]	5.0E-09
MTTFd	[Years]	100
DC/CCF/Cat.		98.19 % / 80 % / 4
Mechanical data		
Length L	[mm]	1136
Housing materials		housing: aluminium; window: PC
Weight	[kg]	9.2
Displays / operating elements		
Display		LED yellow LED green

OY903S

OYD0910-04-4-06-P-1

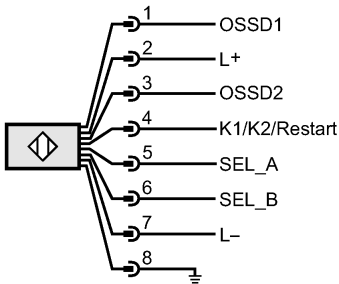
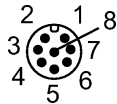
Photoelectric sensors

	LED red LED orange
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Electrical connection

Connection	M12 connector
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Wiring



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.