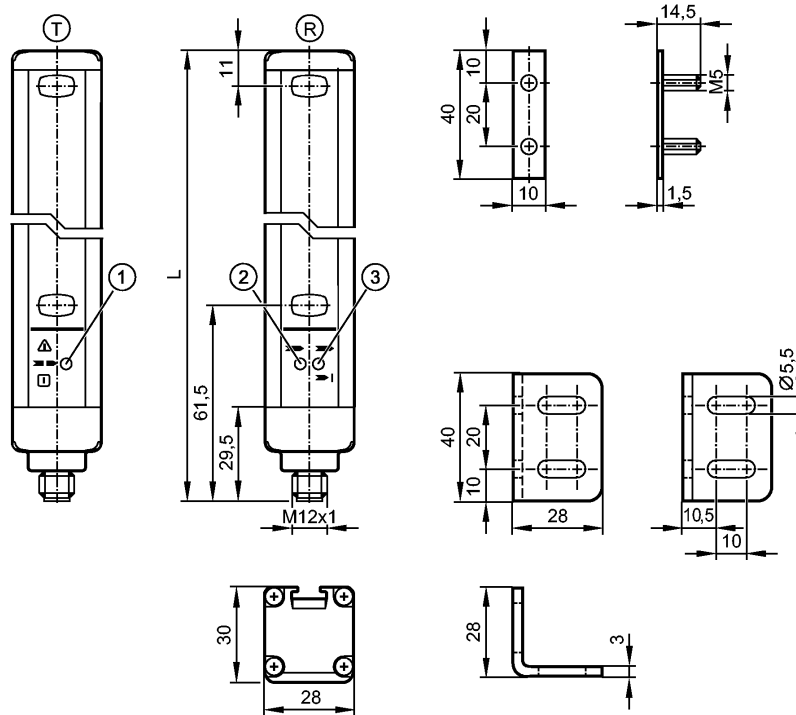


OY097S

OYA1060-90-2-12-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 3 colours (red/green/orange)
- 2: LED (yellow)
- 3: LED 2 colours (red/green)



Product characteristics

Safety light curtain

Length L: 1113 mm

Quick disconnect

Complies with the requirements:

type 2 (IEC 61496-1)

SILcl 1 (IEC 62061)

PL c (EN ISO 13849-1)

Electrical data

Electrical design	DC PNP
Operating voltage [V]	24 DC (19.2...28.8)
Current consumption	
- Transmitter [mA]	42
- Receiver [mA]	83
Type of light	Infrared light 950 nm
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 2

Outputs

Outputs (OSSDs)	2 x PNP
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OYA1060-90-2-12-P-1

Photoelectric sensors

Max. current load per output [mA]	400 (24 V)
Short-circuit protection	yes

Monitoring range

Protected area height [mm]	1060
Resolution (detection capacity d)[mm]	90
Protected area width (range) [m]	0...4 / 3...12

Reaction times

Response time [ms]	5.5
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Environment

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

Mission time TM [h]	175200
Test interval T1 [Years]	20
Safety-related reliability PFHd [1/h]	3.0E-08
MTTFd [Years]	100
DC/CCF/Cat.	93.0% / 80 % / 2

Mechanical data

Length L [mm]	1113
Housing materials	housing: aluminum; window: PC
Weight [kg]	3.66

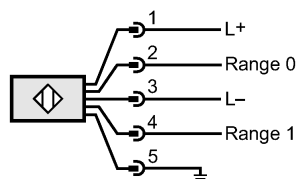
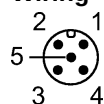
Displays / operating elements

Display	Transmitter 1 LED Receiver 2 LED
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Electrical connection

Transmitter	
Connection	M12 connector

Wiring Transmitter



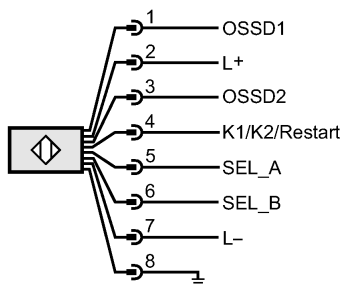
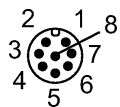
Receiver	
Connection	M12 connector

Wiring Receiver

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OYA1060-90-2-12-P-1

Photoelectric sensors



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

Accessories (included)	4 assembly angles; 4 mounting nuts; nuts
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Remarks

Remarks	*) for wire cross-section 0.34 mm ²
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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.