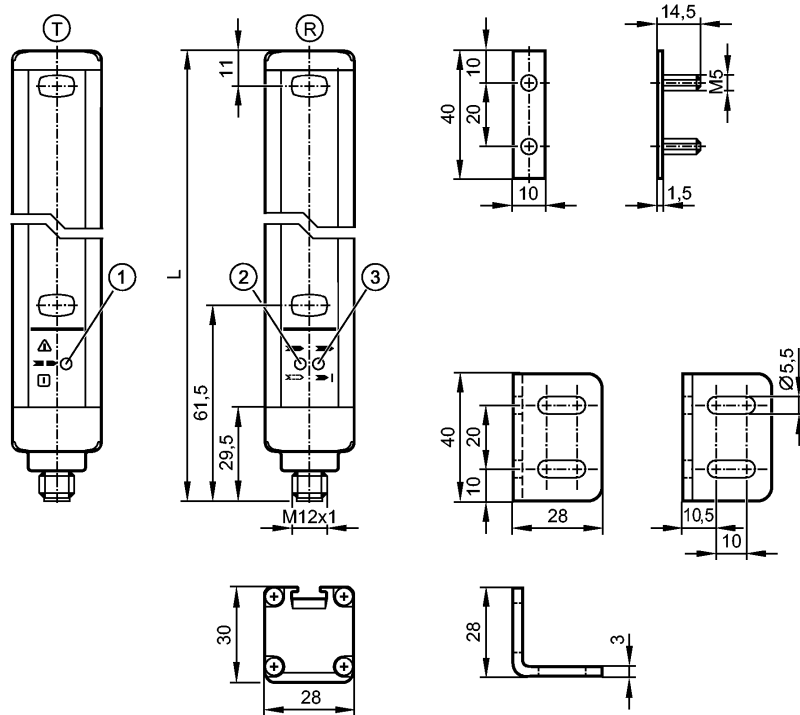


**OY208S**

OYA1210-90-4-20-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 2 colours (yellow/blue)
- 3: LED 2 colours (red/green)



**Product characteristics**

Safety light curtain
Length L: 1263 mm
Quick disconnect
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]	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**

## OY208S

OYA1210-90-4-20-P-1

Photoelectric sensors

Outputs (OSSDs)	2 x PNP
Max. current load per output [mA]	400 (24 V)
Short-circuit protection	yes

Monitoring range	
Protected area height [mm]	1210
Resolution (detection capacity d)[mm]	90
Protected area width (range) [m]	0...10 / 3...20

Reaction times	
Response time [ms]	4

Environment	
Applications	Class C to EN 60654-1 weatherproof application
Ambient temperature [°C]	-10...55
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

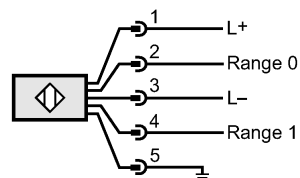
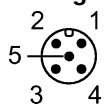
Safety classification	
Mission time T <sub>M</sub> [h]	175200
Test interval T <sub>1</sub> [Years]	20
Safety-related reliability PFH <sub>d</sub> [1/h]	1.2E-08
MTTF <sub>d</sub> [Years]	100
DC/CCF/Cat.	95.2 % / 80 % / 4

Mechanical data	
Length L [mm]	1263
Housing materials	housing: aluminum; window: PC
Weight [kg]	4.26

Displays / operating elements	
Display	<ul style="list-style-type: none"> <li>LED yellow</li> <li>LED green</li> <li>LED red</li> <li>LED blue</li> <li>LED orange</li> </ul>

Electrical connection	
Transmitter	
Connection	M12 connector

### Wiring Transmitter



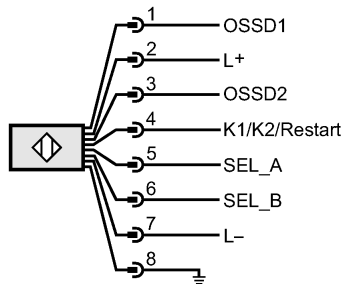
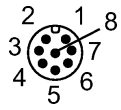
Receiver	
Connection	M12 connector

**OY208S**

OYA1210-90-4-20-P-1

Photoelectric sensors

**Wiring Receiver**



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

Accessories (included)	6 Assembly angle; 6 Mounting Nuts; nuts
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**Remarks**

Remarks	*) for wire cross-section 0.34 mm <sup>2</sup>
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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.**