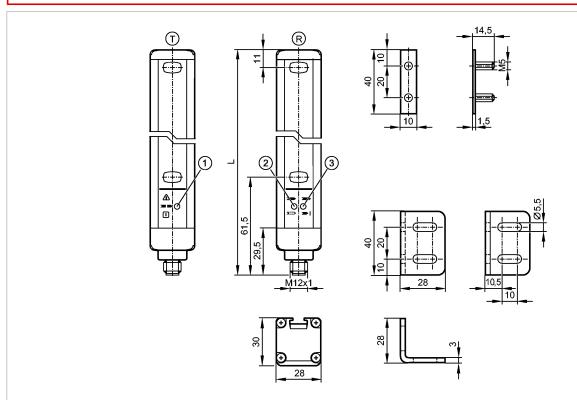
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OYA0310-20-4-20-P-1 **Photoelectric sensors**

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: 363 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 (19.228.8)
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

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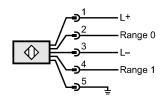
Photoelectric sensors

Outputs (OSSDs)	2 x PNP
Max. current load per output [mA	400 (24 V)
Short-circuit protection	yes
Monitoring range	
Protected area height [mm] 310
Resolution (detection capacity d)[mm] 20
Protected area width (range) [m	010 / 320
Reaction times	
Response time [ms	5.5
Environment	
Applications	Class C to EN 60654-1 weatherproof application
Ambient temperature [°C	-1055
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	1.3E-08
MTTFd [Years]
DC/CCF/Cat.	95.0 % / 80 % / 4
Mechanical data	
Length L [mm]
Housing materials	housing: aluminum; window: PC
Weight [kg	1.845
Displays / operating elements	
Display	LED yellow LED green LED red LED blue LED orange
Electrical connection Transmitter	

Connection M12 connector

Wiring Transmitter





Receiver

Connection M12 connector

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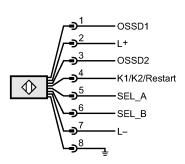
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Photoelectric sensors

Wiring Receiver





Max. connection cable length [m] 100 *)

Accessories

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

Remarks

Remarks *) for wire cross-section 0.34 mm²

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.