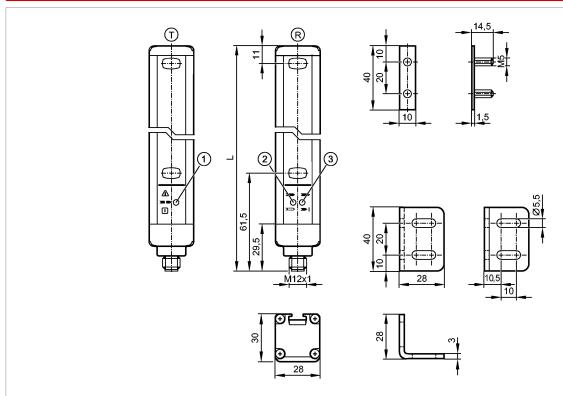
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OYA0910-50-4-20-P-1 **Photoelectric sensors**

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	
afety light curtain	
ength L: 963 mm	
uick disconnect	
omplies with the requirements:	
rpe 4 (IEC 61496-1)	
IL 3 (IEC 61508)	
ILcl 3 (IEC 62061)	
L 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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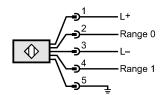
Photoelectric sensors

Outputs (OSSDs)	2 x PNP
Max. current load per output [mA	400 (24 V)
Short-circuit protection	yes
Monitoring range	
Protected area height [mm	910
Resolution (detection capacity d)[mm	50
Protected area width (range) [m	010 / 320
Reaction times	
Response time [ms	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	1.2E-08
MTTFd [Years	100
DC/CCF/Cat.	95.2 % / 80 % / 4
Mechanical data	
Length L [mm	963
Housing materials	housing: aluminum; window: PC
Weight [kg	3.195
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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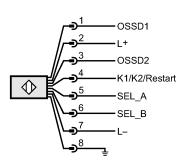
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Photoelectric sensors

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

 $ifm\ efector,\ inc. \ \bullet\ 1100\ Atwater\ Drive\ \bullet\ Malvern\ \bullet\ PA\ 19355\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ US\ -\ OY286S\ -\ 07.06.2010$

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