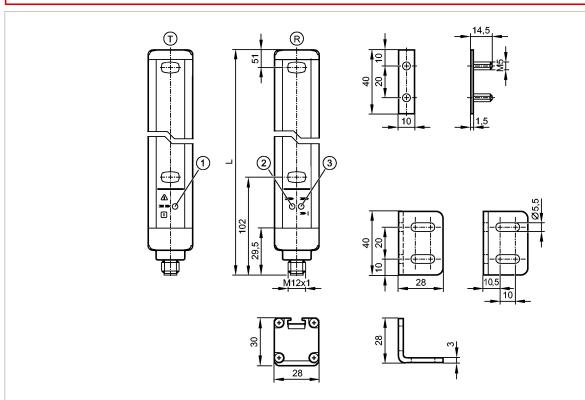
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OYA0910-04-4-12-P-1 Photoelectric sensors

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 grid
Length L: 1053 mm
Connector
Complies with the requirements:
ype 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		
Reverse polarity protection		yes
Power-on delay time	[s]	< 2

Outputs

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OYA0910-04-4-12-P-1



Photoelectric sensors

Max. current load per output Short-circuit protection Range Protected area height Number of beams Protected area width (range) Reaction times Response time Environment	[mA] [mm] [m]	400 (24 V) yes 910 4 04 / 312
Range Protected area height Number of beams Protected area width (range) Reaction times Response time Environment	[m]	910 4
Protected area height Number of beams Protected area width (range) Reaction times Response time Environment	[m]	4
Number of beams Protected area width (range) Reaction times Response time Environment	[m]	4
Protected area width (range) Reaction times Response time Environment		
Reaction times Response time Environment		04 / 312
Response time Environment	[ms]	
Environment	[ms]	
		3
A Province		
Applications		Class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-1055
Storage temperature	[°C]	-2070
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]	8.2E-09
MTTFd [[Years]	100
DC/CCF/Cat.		96.1% / 80% / 2
Mechanical data		
Length L	[mm]	1053
Housing materials		housing: aluminium; window: PC
Weight	[kg]	3.508
Displays / operating elemen	ts	
Display		LED yellow
Electrical connection		
		M12 connector
		::
2 1		
Electrical connection Transmitter Connection Wiring Transmitter		LED yellow LED green LED Red M12 connector

Receiver

Connection M12 connector

-Range 0

-Range 1

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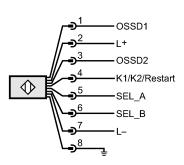
OYA0910-04-4-12-P-1



Photoelectric sensors







Max. connection cable length	[m]	100 *)
Accessories		
Accessories (included)		4 mounting brackets; 4 mounting nuts; nuts
Remarks		
Remarks		*) for wire cross-section 0.34 mm ²
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.