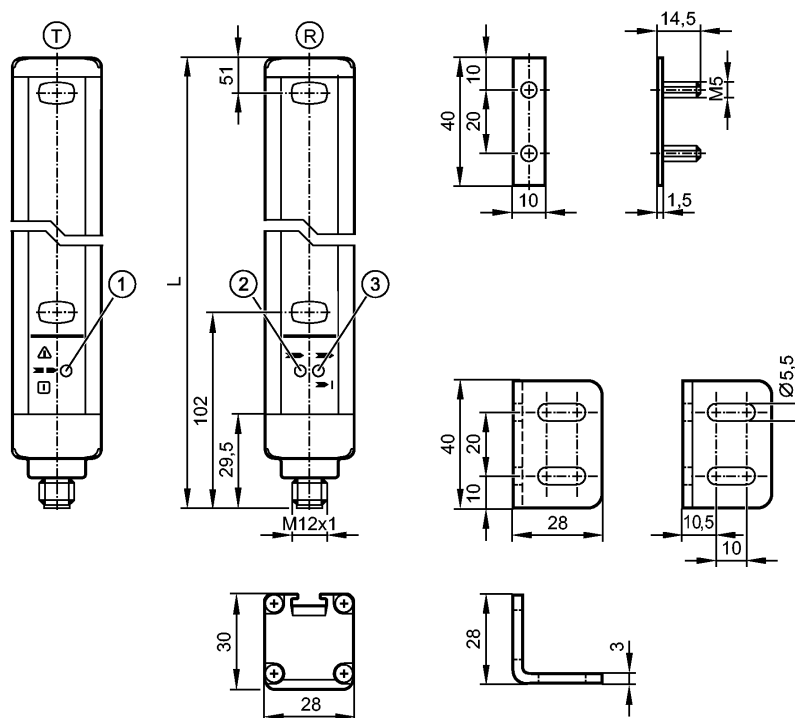


OY112S

OYA0810-03-2-12-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 grid

Length L: 953 mm

Connector

Complies with the requirements:

type 2 (IEC 61496-1)

SIL 2 (IEC 61508)

SILcl 2 (IEC 62061)

PL d (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

OY112S

OYA0810-03-2-12-P-1

Photoelectric sensors

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

Range	
Protected area height [mm]	810
Number of beams	3
Protected area width (range) [m]	0...4 / 3...12

Reaction times	
Response time [ms]	3.5

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]	1.9E-08
MTTFd [Years]	100
DC/CCF/Cat.	94.6% / 80% / 2

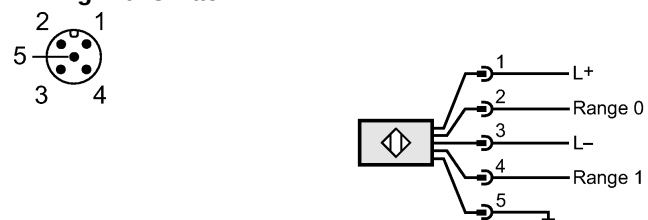
Mechanical data	
Length L [mm]	953
Housing materials	housing: aluminium; window: PC
Weight [kg]	3.176

Displays / operating elements	
Display	LED yellow LED green LED red

Electrical connection

Transmitter	
Connection	M12 connector

Wiring Transmitter



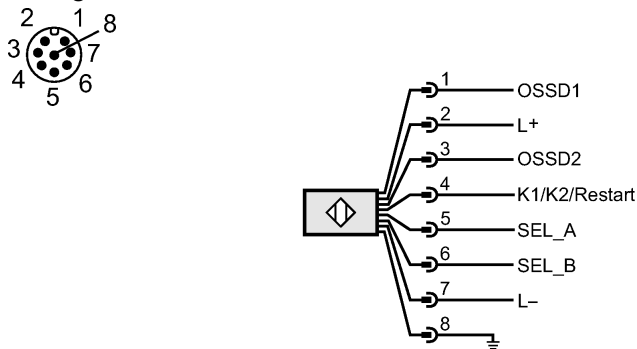
Receiver	
Connection	M12 connector

OY112S

OYA0810-03-2-12-P-1

Photoelectric sensors

Wiring Receiver



Max. connection cable length	[m]	100 *)
Accessories		
Accessories (included)	4 mounting brackets; 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.