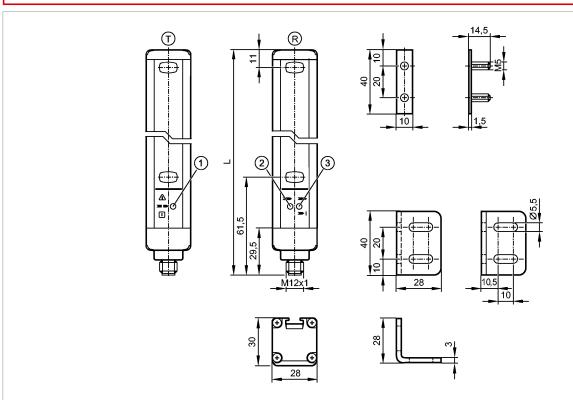
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OY109S

OYA1360-90-4-12-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 curtain	
Length L: 1413 mm	
Quick disconnect	
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		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 2

Outputs

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Receiver Connection

Wiring Receiver

OYA1360-90-4-12-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]	1360
Resolution (detection capacity	d)[mm]	90
Protected area width (range)	[m]	04 / 312
Reaction times		
Response time	[ms]	6
Environment		
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 PFHo	l [1/h]	1.0E-08
MTTFd	[Years]	100
DC/CCF/Cat.		97.05% / 80 % / 4
Mechanical data		
Length L	[mm]	1413
Housing materials		housing: aluminum; window: PC
Weight	[kg]	4.654
Displays / operating elemen	nts	
Display		Transmitter 1 LED
		Receiver 2 LED
Electrical connection		
Transmitter		
Connection		M12 connector
Wiring Transmitter 2 _ 1		
5 ()		-1
3 4		L+ Range 0
	\Diamond	Name of the state

M12 connector

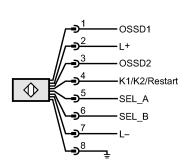
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OYA1360-90-4-12-P-1







Max. connection cable length	[m]	100 *)
Accessories		
Accessories (included)		6 Assembly angle; 6 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.