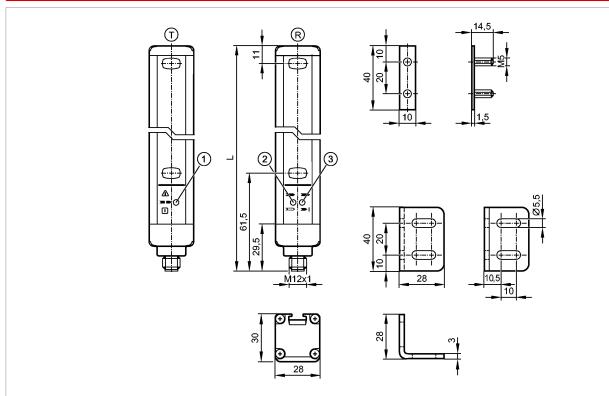
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OY290S

OYA1510-50-4-20-P-1 Photoelectric sensors

standardised.

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



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: 1563 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		

Ш

yes

< 2

Outputs

Protection class

Reverse polarity protection

[s]

Power-on delay time

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OYA1510-50-4-20-P-1



Photoelectric sensors

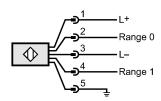
Outputs (OSSDs)		2 x PNP
Max. current load per output [m	A]	400 (24 V)
Short-circuit protection		yes
Monitoring range		
Protected area height [m	m]	1510
Resolution (detection capacity d)[m	m]	50
Protected area width (range)	m]	010 / 320
Reaction times		
Response time [n	ns]	7
Environment		
Applications	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 [Yea	rs]	20
Safety-related reliability PFHd [1	/h]	1.5E-08
MTTFd [Yea	rs]	100
DC/CCF/Cat.		94.7 % / 80 % / 4
Mechanical data		
Length L [m	m]	1563
Housing materials		housing: aluminum; window: PC
Weight [l	[g]	6.21
Displays / operating elements		
Display	LED yellow LED green LED red LED blue LED orange	
Electrical connection		
Transmitter		

M12 connector

Wiring Transmitter



Connection



Recei	

Connection M12 connector

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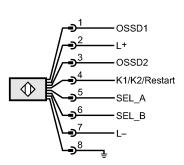
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Wiring Receiver





Max. connection cable length [m] 100 *)

Accessories

Accessories (included) 6 Assembly angle; 6 Mounting Nuts; nuts

Remarks

Remarks *) for wire cross-section 0.34 mm²

Pack quantity [piece] 1

 $ifm\ efector,\ inc. \ \bullet\ 1100\ Atwater\ Drive\ \bullet\ Malvern\ \bullet\ PA\ 19355\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ US\ -\ OY290S\ -\ 07.06.2010$

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