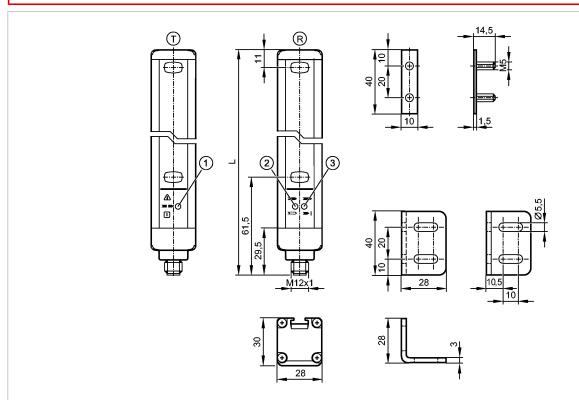
# efectorzoo

### **OY242S**

OYA0310-30-4-20-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: 363 mm	
Quick disconnect	
Complies with the requirements:	
/pe 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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### **OY242S**

OYA0310-30-4-20-P-1



#### **Photoelectric sensors**

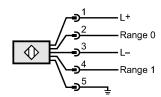
Outputs (OSSDs)	2 x PNP
Max. current load per output [mA	400 (24 V)
Short-circuit protection	yes
Monitoring range	
Protected area height [mm	310
Resolution (detection capacity d)[mm	30
Protected area width (range) [m	010 / 320
Reaction times	
Response time [ms	]4
Environment	
Applications	Class C to 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	1.0E-08
MTTFd [Years	100
DC/CCF/Cat.	95.5 % / 80 % / 4
Mechanical data	
Length L [mm	363
Housing materials	housing: aluminum; window: PC
Weight [kg	1.91
Displays / operating elements	
Display	LED yellow LED green LED red LED blue LED orange
Electrical connection Transmitter	

Transmitter

Connection M12 connector

Wiring Transmitter





Receiver

Connection M12 connector

# efectorzoo

### **OY242S**

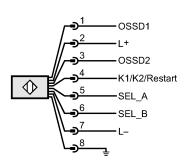
OYA0310-30-4-20-P-1



**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 mm <sup>2</sup>
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.