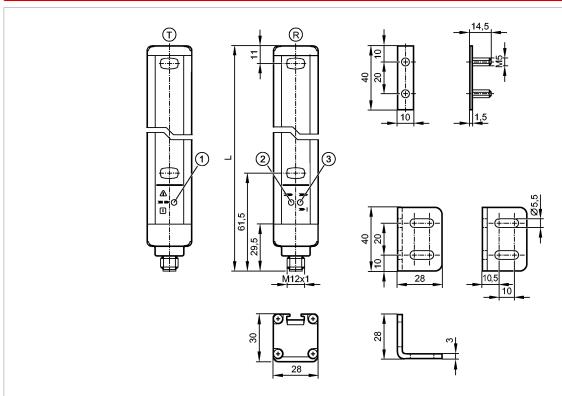
# efectorzoo

## **OY054S**

OYA0610-40-2-12-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)





LISTED	
Product characteristics	
Safety light curtain	
Length L: 663 mm	
Quick disconnect	
Complies with the requirements:	
type 2 (IEC 61496-1)	
SILcl 1 (IEC 62061)	
PL c (EN ISO 13849-1)	
Electrical data	
Electrical design	DC PNP
Operating voltage [V]	24 DC (19.228.8)
O	

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		

Outputs	
Outputs (OSSDs)	2 x PNP

# efectorzoo

## **OY054S**

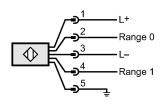
OYA0610-40-2-12-P-1



Phot	oelec	tric s	ensors

Max. current load per output	[mA]	400 (24 V)
Short-circuit protection		yes
Monitoring range		
Protected area height	[mm]	610
Resolution (detection capacity d)[mm]		40
Protected area width (range)	[m]	04 / 312
Reaction times		
Response time	[ms]	7
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 PFHd	l [1/h]	3.2E-08
MTTFd	[Years]	100
DC/CCF/Cat.		92.77% / 80 % / 2
Mechanical data		
Length L	[mm]	663
Housing materials		housing: aluminum; window: PC
Weight	[kg]	2.5
Displays / operating elemen	nts	
Display		Transmitter 1 LED Receiver 2 LED
Electrical connection		
Transmitter		
Connection		M12 connector
Wiring Transmitter		





Receiver

Connection M12 connector

Wiring Receiver

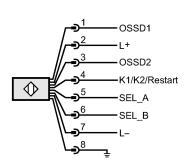
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## **OY054S**

OYA0610-40-2-12-P-1







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

 $ifm\ efector, inc. \bullet 1100\ Atwater\ Drive\ \bullet\ Malvern\ \bullet\ PA\ 19355\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ US\ -\ OY054S\ -\ 01.06.2015$ 

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