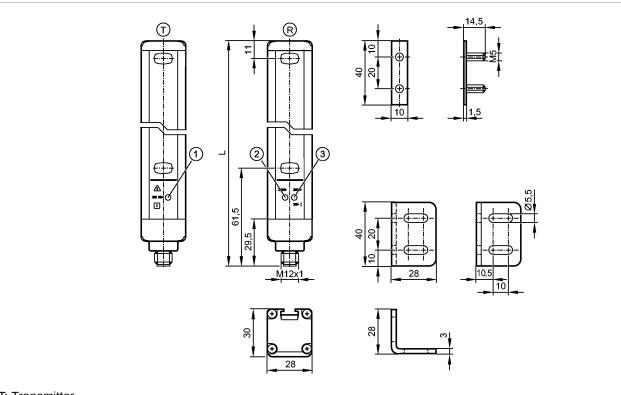
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### **OY454S**

OYA1810-30-4-12-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: 1863 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 [r	A] 42			
- Receiver [r	[A] 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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## **OY454S**

Receiver Connection

Wiring Receiver

OYA1810-30-4-12-P-1



### Photoelectric sensors

Outputs (OSSDs)	2 x PNP
	A] 400 (24 V)
Short-circuit protection	yes
Monitoring range	
	m] 1810
Resolution (detection capacity d)[m	m] 30
Protected area width (range)	m] 04 / 312
Reaction times	
Response time [r	22
Environment	
Applications	Class C to EN 60654-1 weatherproof application
Ambient temperature [	-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 [Yea	rs] 20
Safety-related reliability PFHd [1	/h] 2.02E-08
MTTFd [Yea	rs] 100
DC/CCF/Cat.	97.70% / 80 % / 4
Mechanical data	
Length L [m	m] 1863
Housing materials	housing: aluminum; window: PC
Weight [	[g] 5.926
Displays / operating elements	
Display	Transmitter 1 LED
	Receiver 2 LED
Electrical connection	
Transmitter	
Connection	M12 connector
Wiring Transmitter 2 _ 1	
5 - (0)	_ <del></del> L+
3 4	2 Range 0
4	<b>—</b>
_	
	<u>_</u>

M12 connector

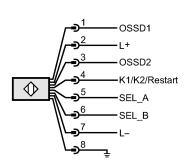
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### **OY454S**

OYA1810-30-4-12-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 <sup>2</sup>
Pack quantity	[piece]	1

 $ifm\ efector, inc. \bullet 1100\ Atwater\ Drive\ \bullet\ Malvern\ \bullet\ PA\ 19355\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ US\ -\ OY454S\ -\ 11.12.2015$ 

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