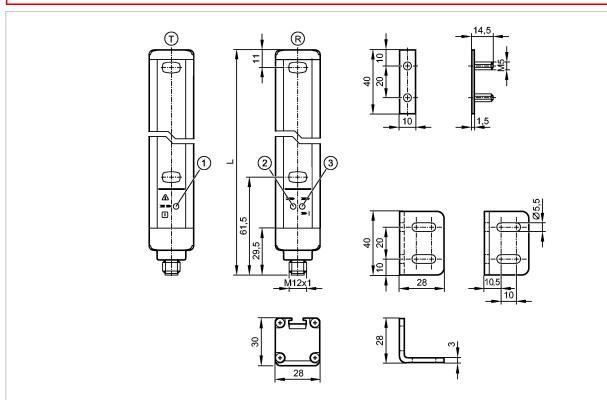
efectorzoo

OY106S

OYA0910-90-4-12-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	
afety light curtain	
ength L: 963 mm	
Duick 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

efectorzoo

OY106S

OYA0910-90-4-12-P-1



Photoelectric sensors

Outputs (OSSDs)	2 x PNP
	A] 400 (24 V)
Short-circuit protection	yes
Monitoring range	,
Protected area height [m	910
Resolution (detection capacity d)[m	
	m] 04 / 312
Reaction times	-,
	s] 5
Environment	
Applications	Class C to EN 60654-1 weatherproof application
Ambient temperature [°	-1055
Storage temperature [°	-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] 8.8E-09
MTTFd [Yea	rs] 100
DC/CCF/Cat.	96.88% / 80 % / 4
Mechanical data	
Length L [m	m] 963
Housing materials	housing: aluminum; window: PC
Weight [l	g] 3.36
Displays / operating elements	
Display	Transmitter 1 LED
	Receiver 2 LED
Electrical connection	
Transmitter	
Connection	M12 connector
Wiring Transmitter	
5 ()	-1
3 4	L+ Range 0
	
	-34 Range 1
	√-3 2 - 1

Receiver

Connection M12 connector

Wiring Receiver

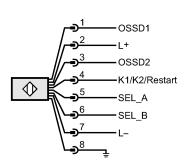
efectorzoo

OY106S

OYA0910-90-4-12-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 ²
Pack quantity	[piece]	1

 $ifm\ efector, inc. \bullet 1100\ Atwater\ Drive\ \bullet\ Malvern\ \bullet\ PA\ 19355\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ US\ -\ OY106S\ -\ 24.03.2009$

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