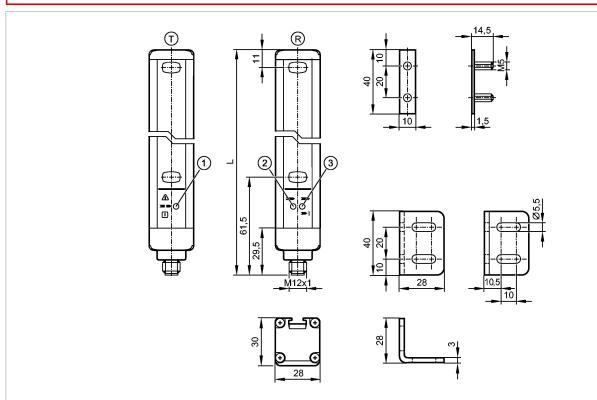
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OY105S

OYA0760-90-4-12-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)





Safety light curtain					
Length L: 813 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)					

	DC PNP
[V]	24 DC (19.228.8)
[mA]	42
[mA]	83
	Infrared light 950 nm
	III
	yes
[s]	< 2
	[mA]

Outputs

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Receiver Connection

Wiring Receiver

OYA0760-90-4-12-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]	760
Resolution (detection capacity	/ d)[mm]	90
Protected area width (range)	[m]	04 / 312
Reaction times		
Response time	[ms]	4.5
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 PFH	d [1/h]	8.3E-09
MTTFd	[Years]	100
DC/CCF/Cat.		96.79% / 80 % / 4
Mechanical data		
Length L	[mm]	813
Housing materials		housing: aluminum; window: PC
Weight	[kg]	3.066
Displays / operating eleme	nts	
Display		Transmitter 1 LED
		Receiver 2 LED
Electrical connection		
Transmitter		
Connection		M12 connector
Wiring Transmitter		
5 - 1		1
3 4		L+ Page 0
	\Diamond	Range 0 L-
	V	

M12 connector

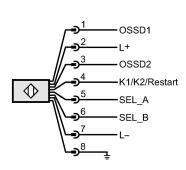
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Max. connection cable length	[m]	100 *)
Accessories		
Accessories (included)		4 assembly angles; 4 mounting nuts; nuts
Remarks		
Remarks		*) for wire cross-section 0.34 mm ²
Pack quantity	[piece]	1

 $ifm\ efector, inc. \bullet 1100\ Atwater\ Drive\ \bullet\ Malvern\ \bullet\ PA\ 19355\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ US\ -\ OY105S\ -\ 24.03.2009$

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