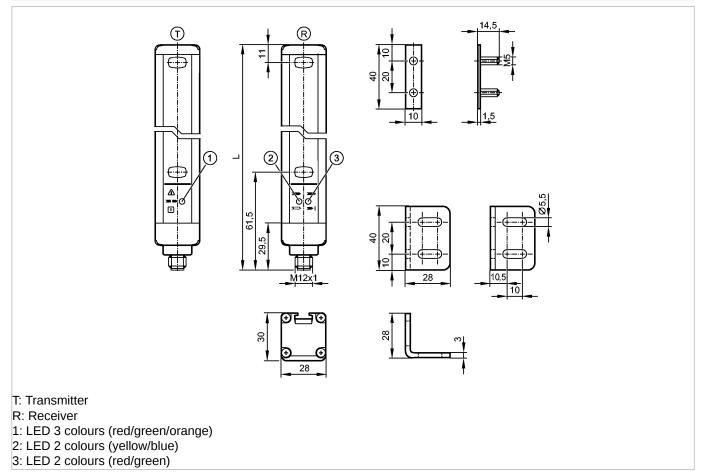
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OY249S

OYA1360-30-4-20-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.



Product characteristics	
Safety light curtain	
Length L: 1413 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	[mA]	42
- Receiver	[mA]	83
Type of light		Infrared light 950 nm
Protection class		
Reverse polarity protection	ı	yes
Power-on delay time	[S]	< 2
Outputs		

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OYA1360-30-4-20-P-1



Photoelectric sensors

Outputs (OSSDs)		2 x PNP
Max. current load per outpu	ıt [mA]	400 (24 V)
Short-circuit protection		yes
Monitoring range		
Protected area height	[mm]	1360
Resolution (detection capac		30
Protected area width (range		010 / 320
Reaction times	, <u> </u>	
Response time	[ms]	10
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 PF	Hd [1/h]	1.9E-08
MTTFd	[Years]	100
DC/CCF/Cat.		94.0 % / 80 % / 4
Mechanical data		
Length L	[mm]	1413
Housing materials		housing: aluminum; window: PC
Weight	[kg]	4.755
Displays / operating elem	nents	
Display		LED yellow
		LED green LED red
		LED blue
		LED orange
Electrical connection		
Transmitter		M12 connector
Connection Wiring Transmitter		
5-(<u></u> L+
3 4		/ - 2 Range 0
	\Diamond	2^{-3}
		$ \sum_{n=1}^{4} \operatorname{Range} 1 $
Receiver		
Connection		M12 connector

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OYA1360-30-4-20-P-1

Wiring Receiver 2^{1}_{3} OSSD1 **9**2 -L+ <mark>۶</mark> م -OSSD2 4 K1/K2/Restart \Diamond -SEL_A Ð **∍**<u>6</u> -SEL_B - L-Max. connection cable length [m] 100 *) Accessories 6 Assembly angle; 6 Mounting Nuts; nuts Accessories (included) Remarks Remarks *) for wire cross-section 0.34 mm² Pack quantity [piece] 1 ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — OY249S — 07.06.2010 Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.

