inductive sensor XS1 M30 - L53mm - brass -Sn10mm - 12..24VDC - M12





Main

Range of product	OsiSense XS	
Series name	General purpose	
Sensor type	Inductive proximity sensor	
Device application	Mobile equipment	
Sensor name	XS1	
Sensor design	Cylindrical M30	
Size	54 mm	
Body type	Fixed	
Detector flush mounting acceptance	Flush mountable	
Material	Metal	
Type of output signal	Discrete	
Wiring technique	4-wire	
[Sn] nominal sensing distance	10 mm	
Discrete output function	1 NO + 1 NC	
Output circuit type	DC	
Discrete output type	PNP	
Electrical connection	Male connector M12, 4 pins	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	
Switching capacity in mA	<= 200 mA with overload and short-circuit protection	
IP degree of protection	IP69K conforming to DIN 40050 IP65 conforming to IEC 60529 IP67	

Complementary		
Safety level	SIL 2 conforming to EN/IEC 61508 PL = d conforming to EN/ISO 13849-1 SILCL 2 conforming to IEC 62061	
Safety reliability data	MTTFd = 1810 years PFHd = 62.9E-9 1/h SFF = 92 % DC = 74 % with appropriate safety controller	
Service life	20 year(s)	
Thread type	M30 x 1.5	
Detection face	Frontal	
Front material	PPS	
Enclosure material	Nickel plated brass	
Operating zone	08 mm	
Differential travel	115% of Sr	
Status LED	Output state: 1 LED (yellow)	
Supply voltage limits	936 V DC	
Switching frequency	<= 1000 Hz	
Maximum voltage drop	<2 V (closed)	
Current consumption	010 mA no-load	
Maximum delay first up	5 ms	
Maximum delay response	0.3 ms	

Maximum delay recovery	0.7 ms	
Marking	CE	
Threaded length	33 mm	
Height	30 mm	
Length	54 mm	
Net weight	0.1 kg	

Environment

Standards	IEC 62061 EN/ISO 13849-1	
Product certifications	UL E2 CSA TÜV	
Ambient air temperature for operation	-2570 °C	
Ambient air temperature for storage	-4085 °C	
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6	
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27	

Packing Units

Unit Type of Package 1	PCE	
Unit Type of Package 2	BAG	
Unit Type of Package 3	S01	

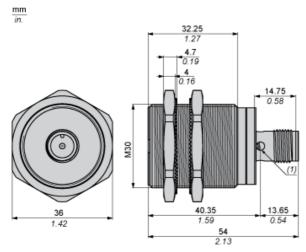
Offer Sustainability

Green Premium product Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
₫Yes	
Product Environmental Profile	
☑ End Of Life Information	

Contractual warranty

Warranty	18 months

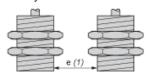
Dimensions



(1) LED

Minimum Mounting Distances

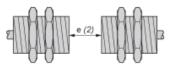
Side by side



e (1) 20 mm/0.79 in

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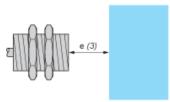
Face to face



e (2) 120 mm/4.72 in

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Facing a metal object



e (3) 30 mm/1.18 in.

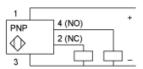
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Wiring Schemes

M12 connector

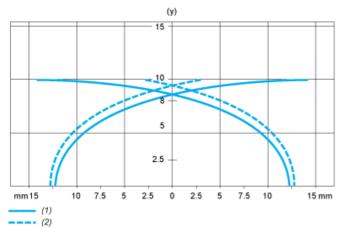


PNP 4-wire



Performance Curves

Standard Steel Target: 30x30x1 mm



- (1) Pick-up points
- (2) Drop-out points (object approaching from the side)
- (y) Sensing distance in mm