Product data sheet
Characteristics

XS130B3PCM12

inductive sensor XS1 M30 - PNP NO&NC - Flush - Sn15mm - 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	15 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	12...24 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	0…12 mm
Differential travel	3...15% of Sr
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	9…36 V DC
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	0...10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.3 ms
Maximum delay recovery	0.7 ms

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Marking	CE
Threaded length	32 mm
Length	54 mm
Net weight	0.1 kg

Environment

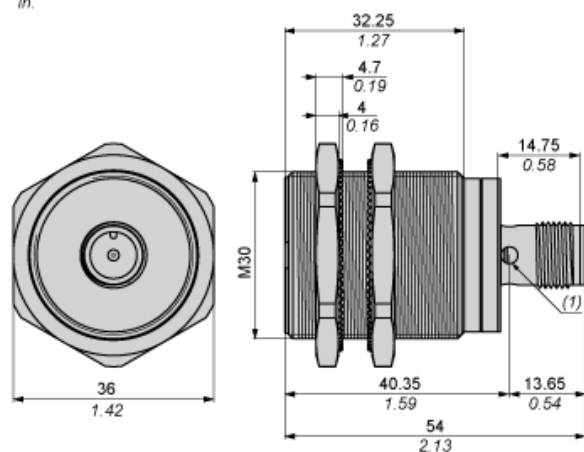|	
Standards	IEC 62061 EN/ISO 13849-1
Product certifications	CSA E2 UL TÜV
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-40…85 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10…55 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	129 g
Package 1 Height	4 cm
Package 1 width	6.5 cm
Package 1 Length	9.5 cm
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	129 g
Package 2 Height	3 cm
Package 2 width	20 cm
Package 2 Length	15 cm
Unit Type of Package 3	S02
Number of Units in Package 3	44
Package 3 Weight	6.131 kg
Package 3 Height	15 cm
Package 3 width	30 cm
Package 3 Length	40 cm

Offer Sustainability

REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

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Dimensions

(1)　LED

Minimum Mounting Distances

Side by side

e (1) 30 mm/1.18 in.
≥

Face to face

e (2) 180 mm/7.09 in.
≥

Facing a metal object
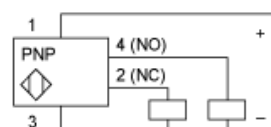

e (3) 45 mm/1.77 in.
≥

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Wiring Schemes
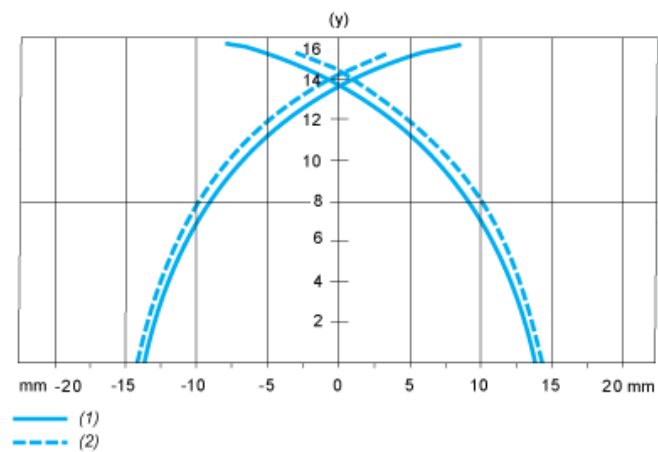
M12 connector

PNP 4-wire

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Performance Curves

Standard Steel Target : 45x45x1 mm

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

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