

# XS118B3PCM12

inductive sensor XS1 M18 - PNP NO&NC -  
Flush - Sn8mm - 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 M18
Size	50 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	8 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	M18 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0...6.4 mm
Differential travel	3...15% of Sr
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	9...36 V DC
Switching frequency	<= 2000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	0...10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.15 ms
Maximum delay recovery	0.35 ms

Marking	CE
Threaded length	28 mm
Length	50 mm
Net weight	0.04 kg




## Environment

Standards	IEC 62061 EN/ISO 13849-1
Product certifications	UL TÜV CSA E2
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

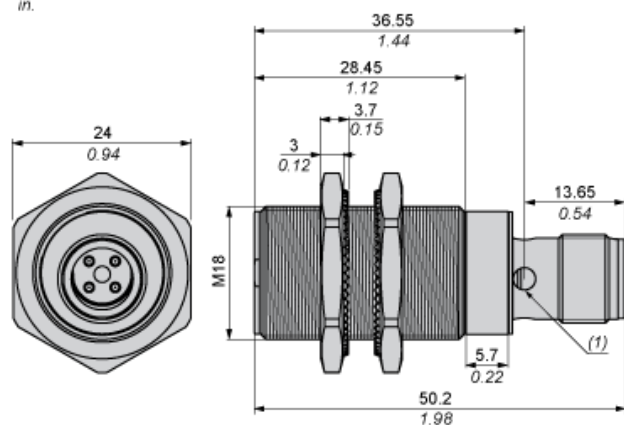
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	58 g
Package 1 Height	2.1 cm
Package 1 width	14.8 cm
Package 1 Length	20.4 cm
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	58 g
Package 2 Height	2.1 cm
Package 2 width	14.8 cm
Package 2 Length	20.4 cm
Unit Type of Package 3	CAR
Number of Units in Package 3	1
Package 3 Weight	65 g
Package 3 Height	4 cm
Package 3 width	6.5 cm
Package 3 Length	9.5 cm

## Offer Sustainability

REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>

## Dimensions

mm  
in.



(1) LED

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### Minimum Mounting Distances

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Side by side



e (1) 16 mm/0.63 in.

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Face to face



e (2) 100 mm/3.94 in.

≥

Facing a metal object



e (3) 25 mm/0.98 in.

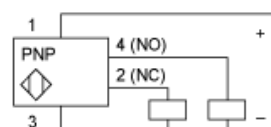
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## Wiring Schemes

M12 connector



PNP 4-wire

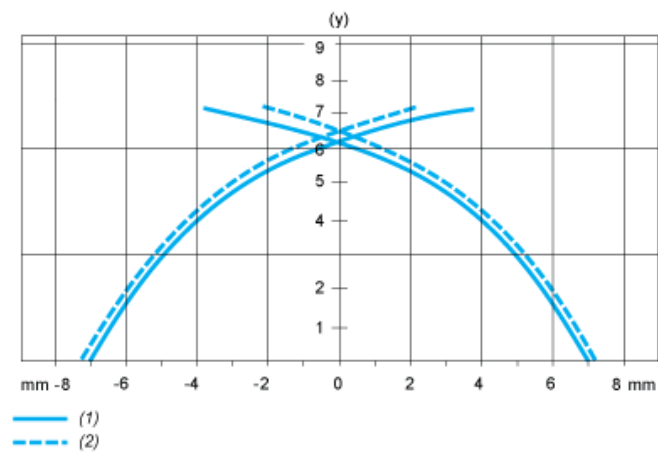


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Performance Curves

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Standard Steel Target : 24x24x1 mm



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