

# XT512B1PAM12

Telemecanique Capacitive proximity sensors XT, cylindrical M12, brass, Sn 2mm, 12..24VDC, connector M12



## Main

Range of product	Telemecanique Capacitive proximity sensors XT
Product or component type	Sensor
Sensor type	Capacitive proximity sensor
Product specific application	Detection of insulated or conductive materials
Sensor name	XT5
Sensor design	Cylindrical M12
Size	75 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Nickel copper alloy
Enclosure material	Nickel copper alloy
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	2 mm
Discrete output function	1 NO
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
Maximum delay response	15 ms
IP degree of protection	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529

## Complementary

ISO thread	M12 x 1
Detection face	Frontal
Front material	PBT
[Sa] assured operating distance	0...1.44 mm
Adjustment zone	0.5...5 mm
Differential travel	< 1...20 % Sr
Repeat accuracy	< 5 % Sr
Status LED	Output state indication: 1 LED (yellow)
Supply voltage limits	10...30 V DC
Maximum residual current	0.1 mA open state
Protection type	Short-circuit protection
Switching frequency	<= 40 Hz
Maximum voltage drop	<2.5 V (closed)
Current consumption	< 15 mA
Maximum delay first up	300 ms
Maximum delay recovery	15 ms
Maximum switching current	200 mA

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Marking	CE UKCA
Setting-up	Sensitivity by potentiometer
Threaded length	40 mm
Length	75 mm
Net weight	0.04 kg




## Environment

Standards	EN/IEC 60947-5-2
Product certifications	cULus
Ambient air temperature for operation	-25...70 °C
Electrical insulation class	Class III conforming to EN/IEC 61140
Vibration resistance	10 gn amplitude = 1 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	4 kV contact conforming to IEC 61000-4-2 8 kV air conforming to IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m conforming to IEC 61000-4-3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.8 cm
Package 1 Width	10.0 cm
Package 1 Length	12.0 cm
Package 1 Weight	37.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	100
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.024 kg

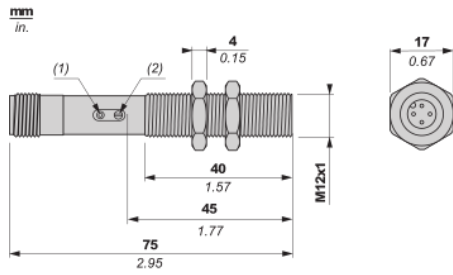
## Offer Sustainability

REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
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>
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

Warranty	18 months
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Dimensions



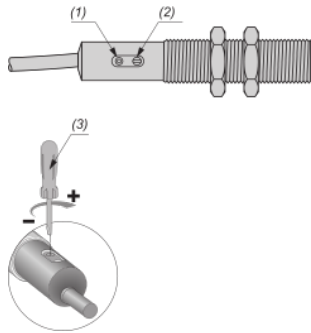
- (1) Output status LED (yellow)
- (2) Adjustment potentiometer (sensitivity)

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Mounting and Clearance

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Sensitivity adjustment



- (1) Adjustment potentiometer
- (2) LED
- (3) Adjustment using suitable screwdriver (included with sensor)

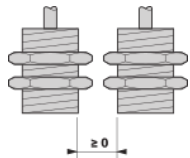
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Mounting and Clearance

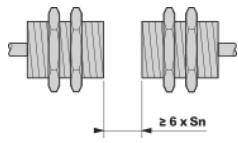
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Minimum Mounting Distances

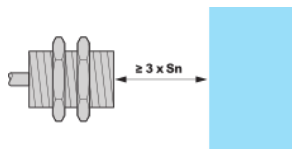
Side by side



Face to face



Facing a Metal Object



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## Connections and schema

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### Wiring diagram

3-wire DC, PNP, NO output, M12 connector

