

# XT118B1PCM12

Capacitive proximity sensors XT, cylindrical  
M18, brass, Sn 5 mm, 24 V DC



## Main

Range of product	Telemecanique Capacitive proximity sensors XT
Sensor type	Capacitive proximity sensor
Product specific application	Detection of insulated or conductive materials
Sensor name	XT1
Sensor design	Cylindrical M18
Size	70 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Enclosure material	Nickel plated brass
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	5 mm
Discrete output function	1 NC + 1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Male connector M12, 4 pins
[Us] rated supply voltage	24 V DC with reverse polarity protection
Maximum delay response	5 ms
IP degree of protection	IP65 conforming to IEC 60529 IP65 conforming to IEC 60947-5-2

## Complementary

ISO thread	M18 x 1
Detection face	Frontal
[Sa] assured operating distance	0...3.6 mm
Adjustment zone	1...8 mm
Differential travel	< 0.2 x Sr
Repeat accuracy	< 0.1 x Sr
Status LED	Output state indication: 1 LED (yellow)
Supply voltage limits	12...30 V DC
Maximum residual current	0.1 mA open state
Protection type	Short-circuit protection
Switching frequency	<= 200 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	< 15 mA
Maximum delay first up	30 ms
Maximum delay recovery	5 ms
Maximum switching current	200 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Threaded length	55 mm
Length	70 mm
Net weight	0.075 kg

## Environment

Standards	IEC 60947-5-2
Product certifications	cETLus
Ambient air temperature for operation	-25...70 °C
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	3 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

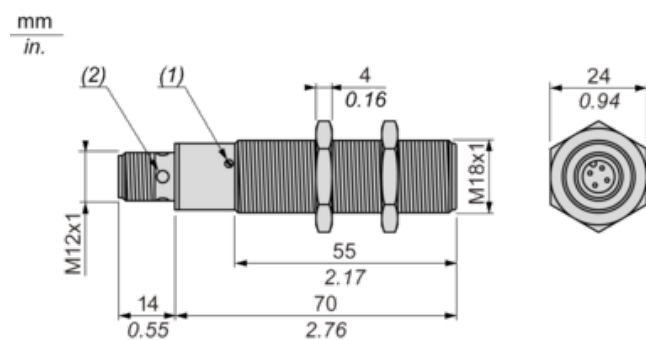
## Offer Sustainability

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>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
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## Dimensions



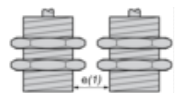
(1) Adjustment potentiometer

(2) LED

## Setting-up

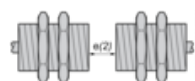
### Minimum Mounting Distances (mm)

Side by side



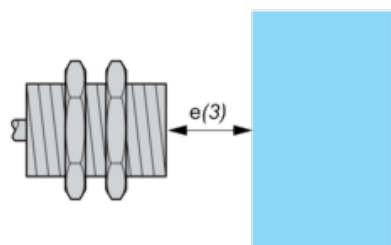
$$e(1) \geq 0$$

Face to face



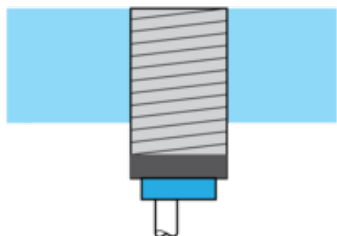
$$e(2) \geq 11$$

Facing a metal object



$$e(3) \geq 10$$

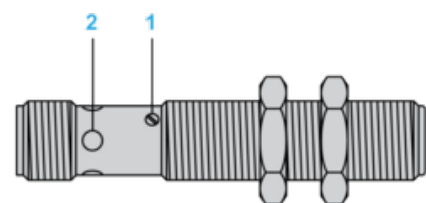
Mounted in support



Fixing nut tightening torque: 28 N.m

## Adjustment

### Sensitivity Adjustment



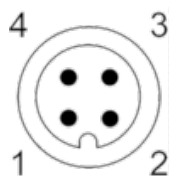
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## Wiring Diagram

### Connector

M12 connector



4-wire DC, PNP NO + NC Output, M12

