

## Product data sheet

## Characteristics

## XT218A1NAL2

Capacitive proximity sensors XT, cylindrical  
M18, plastic, Sn 8 mm, cable 2 m

## 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	XT2
Sensor design	Cylindrical M18
Size	78 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Enclosure material	Plastic
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	8 mm
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Maximum delay response	15 ms
IP degree of protection	IP67 double insulation conforming to IEC 60529

## Complementary

ISO thread	M18 x 1
Detection face	Frontal
[Sa] assured operating distance	0...5.8 mm
Adjustment zone	0...12 mm
Differential travel	< 1...20 % Sr
Repeat accuracy	< 5 % Sr
Wire insulation material	PVC
Status LED	Output state indication: 1 LED (yellow)
Supply voltage limits	10...30 V DC
Maximum residual current	100 mA open state
Protection type	Short-circuit protection
Switching frequency	<= 200 Hz
Maximum voltage drop	<2.5 V (closed)
Current consumption	< 15 mA
Maximum delay first up	100 ms
Maximum delay recovery	15 ms
Maximum switching current	200 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Threaded length	47 mm

Length	78 mm
Net weight	0.15 kg

## Environment

Standards	IEC 60947-5-2
Product certifications	cULus
Ambient air temperature for operation	-10...60 °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
Package 1 Height	2.5 cm
Package 1 Width	21.0 cm
Package 1 Length	15.0 cm
Package 1 Weight	119.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.76 kg

## Offer Sustainability

Toxic heavy metal free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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>

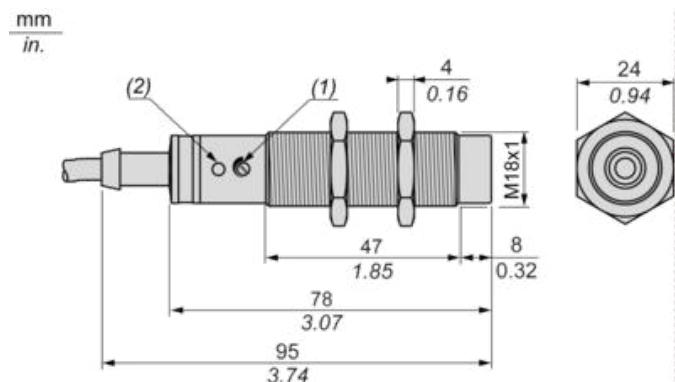
## Contractual warranty

Warranty	18 months
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Dimensions

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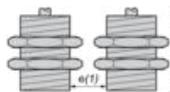
(1) Adjustment potentiometer

(2) LED

## Setting-up

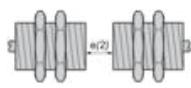
### Minimum Mounting Distances (mm)

Side by side



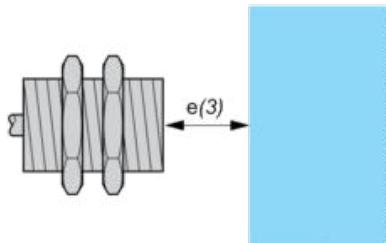
$e(1) \geq 40$

Face to face



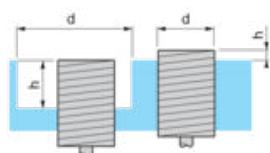
$e(2) \geq 48$

Facing a metal object



$e(3) \geq 24$

Mounted in support



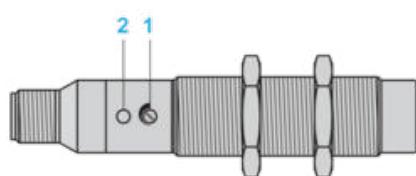
$d \geq 60$

$h \geq 20$

Fixing nut tightening torque: 3 N.m

## Adjustment

### Sensitivity Adjustment



(1) Adjustment potentiometer

(2) LED

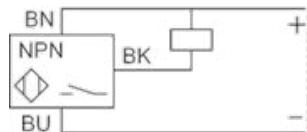
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Wiring Diagram

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**Pre-cabled**

3-wire DC, NPN NO Output



(BU) Blue

(BN) Brown

(BK) Black