

# Product data sheet

Specifications



Telemecanique Capacitive proximity sensors XT, cylindrical M30, plastic, Sn 15 mm, cable 2 m

XT230A1PAL2

Product availability : Stock - Normally stocked in distribution facility

## 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 M30
Size	74.5 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	0.59 in (15 mm)
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	6.56 ft (2 m)
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Maximum delay response	10 ms
IP degree of protection	IP67 double insulation conforming to IEC 60529

## Complementary

ISO thread	M30 x 1.5
Detection face	Frontal
[Sa] assured operating distance	0.00...0.43 in (0...11 mm)
Adjustment zone	0.00...0.67 in (0...17 mm)
Differential travel	< 1...20 % Sr

<b>Repeat accuracy</b>	< 5 % Sr
<b>Wire insulation material</b>	PVC
<b>Status LED</b>	Output state indication 1 LED yellow)
<b>Supply voltage limits</b>	10...30 V DC
<b>Maximum residual current</b>	100 mA open state
<b>Protection Type</b>	Short-circuit protection
<b>Switching frequency</b>	<= 150 Hz
<b>Maximum voltage drop</b>	<2.5 V closed)
<b>Current consumption</b>	< 15 mA
<b>Maximum delay first up</b>	100 ms
<b>Maximum delay recovery</b>	10 ms
<b>Maximum switching current</b>	200 mA
<b>Marking</b>	CE
<b>Setting-up</b>	Sensitivity by potentiometer
<b>Threaded length</b>	1.91 in (48.5 mm)
<b>Length</b>	2.93 in (74.5 mm)
<b>Net Weight</b>	0.60 lb(US) (0.27 kg)

## Environment

<b>Standards</b>	EN/IEC 60947-5-2
<b>Product Certifications</b>	cULus
<b>Ambient air temperature for operation</b>	14...140 °F (-10...60 °C)
<b>Vibration resistance</b>	10 gn 1 mm 10...55 Hz)IEC 60068-2-6
<b>Shock resistance</b>	30 gn 11 ms IEC 60068-2-27
<b>Resistance to electrostatic discharge</b>	4 kV contact IEC 61000-4-2 8 kV air IEC 61000-4-2
<b>Resistance to electromagnetic fields</b>	2.74 V/m (3 V/m) IEC 61000-4-3
<b>Resistance to fast transients</b>	2 kV IEC 61000-4-4

## Ordering and shipping details

<b>Category</b>	22490-SENSORS-ULTRASONIC (XX5,6)
<b>Discount Schedule</b>	DS2
<b>GTIN</b>	3389119026048
<b>Returnability</b>	No
<b>Country of origin</b>	CN

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	0.98 in (2.5 cm)
<b>Package 1 Width</b>	8.27 in (21 cm)
<b>Package 1 Length</b>	5.91 in (15 cm)
<b>Package 1 Weight</b>	5.64 oz (160 g)

## Offer Sustainability

### 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 [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### REACH Regulation

[REACH Declaration](#)

### REACH free of SVHC

Yes

### EU RoHS Directive

Pro-active compliance (Product out of EU RoHS legal scope)

[EU RoHS Declaration](#)

### Toxic heavy metal free

Yes

### Mercury free

Yes

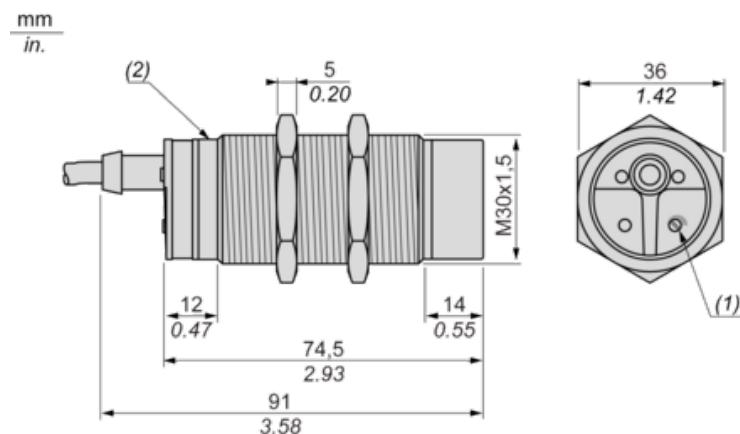
### RoHS exemption information

[Yes](#)

## Contractual warranty

**Warranty** 18 months

### Dimensions



(1) Adjustment potentiometer

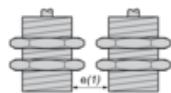
(2) LED

### Setting-up

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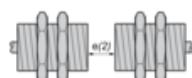
#### Minimum Mounting Distances (mm)

##### Side by side



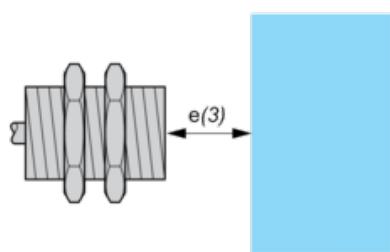
$e(1) \geq 60$

##### Face to face



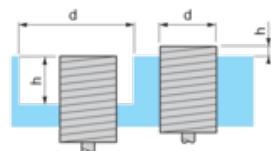
$e(2) \geq 90$

##### Facing a metal object



$e(3) \geq 45$

##### Mounted in support



$d \geq 90$

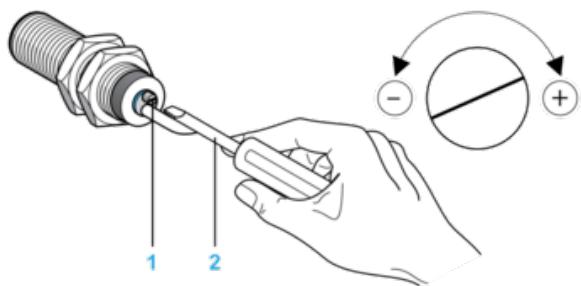
$h \geq 30$

Fixing nut tightening torque: 8 N.m

### Adjustment

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#### Sensitivity Adjustment



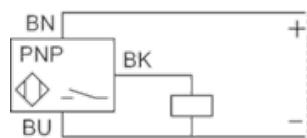
(1) Adjustment potentiometer

(2) Screwdriver (included with sensor)

### Wiring Diagram

#### Pre-cabled

3-wire DC, PNP NO Output



(BU) Blue

(BN) Brown

(BK) Black

#### Recommended replacement(s)