

# Product data sheet

Specifications



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

XT230A1FBL2

**Product availability : Stock - Normally stocked in distribution facility**

### Main

<b>Range of Product</b>	Telemecanique Capacitive proximity sensors XT
<b>Sensor Type</b>	Capacitive proximity sensor
<b>Product Specific Application</b>	Detection of insulated or conductive materials
<b>Sensor name</b>	XT2
<b>Sensor design</b>	Cylindrical M30
<b>Size</b>	74.5 mm
<b>Body type</b>	Fixed
<b>Detector flush mounting acceptance</b>	Non flush mountable
<b>Material</b>	Plastic
<b>Enclosure Material</b>	Plastic
<b>Type of output signal</b>	Discrete
<b>Wiring Technique</b>	2-wire
<b>[Sn] nominal sensing distance</b>	0.59 in (15 mm)
<b>Discrete output function</b>	1 NC
<b>Output circuit type</b>	AC
<b>Electrical connection</b>	Cable
<b>Cable length</b>	6.56 ft (2 m)
<b>[Us] rated supply voltage</b>	24...240 V AC 50...60 Hz
<b>Maximum delay response</b>	30 ms
<b>IP degree of protection</b>	IP67 double insulation conforming to IEC 60529

### Complementary

<b>ISO thread</b>	M30 x 1.5
<b>Detection face</b>	Frontal
<b>[Sa] assured operating distance</b>	0.00...0.43 in (0...11 mm)
<b>Adjustment zone</b>	0.00...0.67 in (0...17 mm)
<b>Differential travel</b>	< 1...20 % Sr
<b>Repeat accuracy</b>	< 5 % Sr

Wire insulation material	PVC
Status LED	Output state indication 1 LED yellow)
Supply voltage limits	20...265 V AC
Switching frequency	<= 25 Hz
Maximum voltage drop	<10 V closed)
Current consumption	< 4 mA
Maximum delay first up	200 ms
Maximum delay recovery	30 ms
Maximum switching current	300 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Threaded length	1.91 in (48.5 mm)
Length	2.93 in (74.5 mm)
Net Weight	0.60 lb(US) (0.27 kg)

## Environment

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

## Ordering and shipping details

Category	22490-SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	3389119026024
Returnability	Yes
Country of origin	CN

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.57 in (4.0 cm)
Package 1 Width	5.12 in (13.0 cm)
Package 1 Length	5.51 in (14.0 cm)
Package 1 Weight	5.68 oz (161.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	30
Package 2 Height	5.91 in (15.0 cm)

<b>Package 2 Width</b>	11.81 in (30.0 cm)
<b>Package 2 Length</b>	15.75 in (40.0 cm)
<b>Package 2 Weight</b>	11.57 lb(US) (5.25 kg)

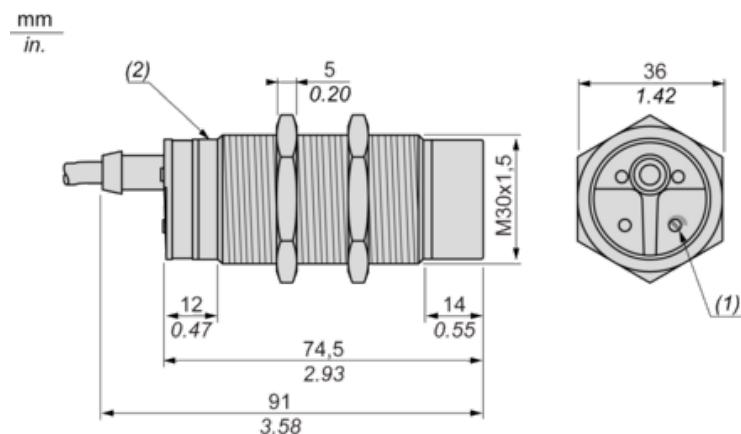
## Offer Sustainability

<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Diisonyl 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>
<b>REACh Regulation</b>	<a href="#">REACh Declaration</a>
<b>REACh free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>

## Contractual warranty

<b>Warranty</b>	18 months
-----------------	-----------

### Dimensions



(1) Adjustment potentiometer

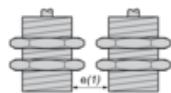
(2) LED

## Setting-up

---

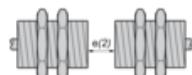
### Minimum Mounting Distances (mm)

#### Side by side



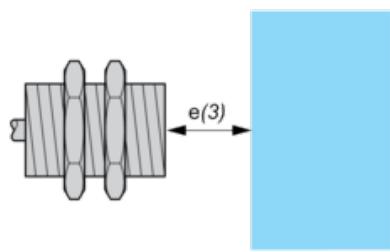
$e(1) \geq 60$

#### Face to face



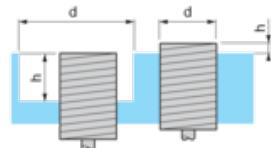
$e(2) \geq 90$

#### Facing a metal object



$e(3) \geq 45$

#### Mounted in support



$d \geq 90$

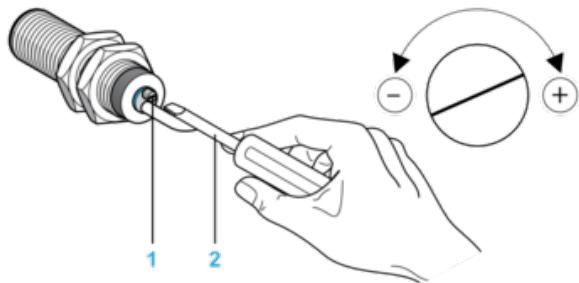
$h \geq 30$

Fixing nut tightening torque: 8 N.m

### Adjustment

---

#### Sensitivity Adjustment



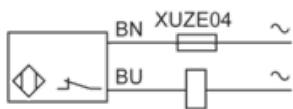
(1) Adjustment potentiometer

(2) Screwdriver (included with sensor)

### Wiring Diagram

#### Pre-cabled

##### 2-wire AC NC Output



(BU) Blue

(BN) Brown

#### Recommended replacement(s)