

# XT230A1PCM12

Telemecanique Capacitive proximity sensors  
XT, cylindrical M30, plastic, Sn 15 mm, 12...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                        | 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                   | 4-wire                                         |
| [Sn] nominal sensing distance      | 0.59 in (15 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          | 12...24 V DC reverse polarity protection       |
| Maximum delay response             | 15 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                         |
| Repeat accuracy                 | < 5 % Sr                              |
| 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             | <= 150 Hz                             |
| Maximum voltage drop            | <2.5 V closed)                        |
| Current consumption             | < 25 mA                               |
| Maximum delay first up          | 100 ms                                |
| Maximum delay recovery          | 15 ms                                 |
| Maximum switching current       | 400 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                      | 0.33 lb(US) (0.15 kg)                 |

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## 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<br>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              | 3389119026055                    |
| Returnability     | Yes                              |
| Country of origin | CN                               |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 0.98 in (2.5 cm)       |
| Package 1 Width              | 8.27 in (21 cm)        |
| Package 1 Length             | 5.91 in (15 cm)        |
| Package 1 Weight             | 0.18 lb(US) (0.081 kg) |

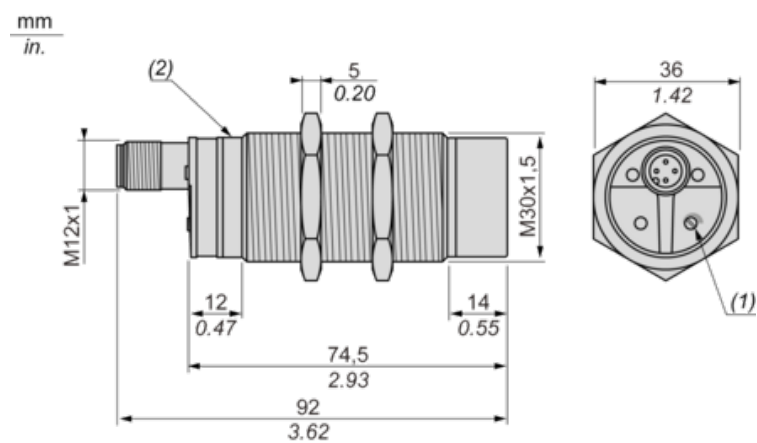
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> |
| 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>                                                                                                                                                                                              |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information |  Yes                                                                                                                                                                                                                                                                                           |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

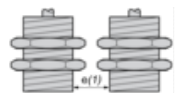
Dimensions



## Setting-up

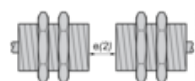
### Minimum Mounting Distances (mm)

Side by side



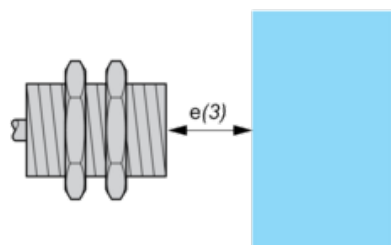
$$e(1) \geq 60$$

Face to face



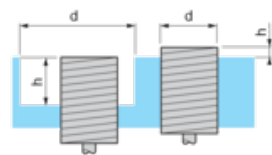
$$e(2) \geq 90$$

Facing a metal object



$$e(3) \geq 45$$

Mounted in support



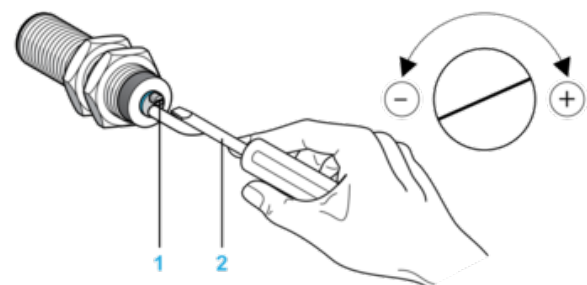
$$d \geq 90$$

$$h \geq 30$$

Fixing nut tightening torque: 8 N.m

## Adjustment

### Sensitivity Adjustment



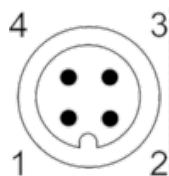
(1) Adjustment potentiometer

(2) Screwdriver (included with sensor)

## Wiring Diagram

### Connector Version

M12 connector



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

