

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) |

Environment

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|---------------------------------------|--|
| 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 | 3389119026055 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.18 lb(US) (0.081 kg) |
| Returnability | Yes |
| Country of origin | CN |

Packing Units

| | |
|------------------------|------------------|
| Unit Type of Package 1 | PCE |
| 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) |

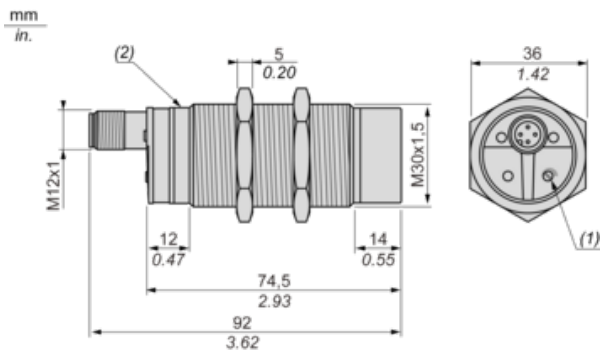
Offer Sustainability

| | |
|----------------------------|---|
| 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 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

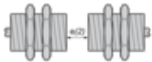
Minimum Mounting Distances (mm)

Side by side



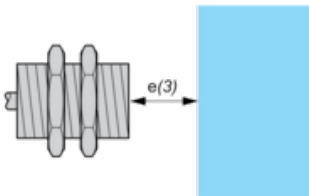
$e(1) \geq 60$

Face to face



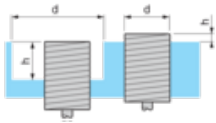
$e(2) \geq 90$

Facing a metal object



$e(3) \geq 45$

Mounted in support



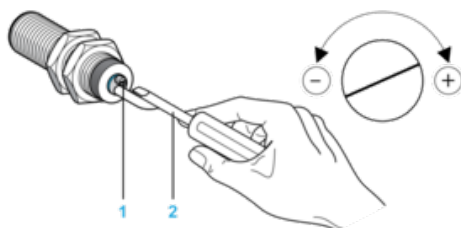
$d \geq 90$

$h \geq 30$

Fixing nut tightening torque: 8 N.m

Adjustment

Sensitivity Adjustment



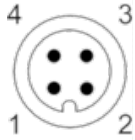
(1) Adjustment potentiometer

(2) Screwdriver (included with sensor)

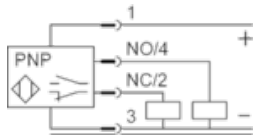
Wiring Diagram

Connector Version

M12 connector



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



Mouser Electronics

Authorized Distributor

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