# Product data sheet
## Characteristics

# XT518B1PCM12
## Telemecanique Capacitive proximity sensors XT, cylindrical M18, brass, Sn 5mm, 12..24VDC, connector M12



### Main

| | |
|---|---|
| Range of product | Telemecanique Capacitive proximity sensors XT |
| Product or component type | Sensor |
| Sensor type | Capacitive proximity sensor |
| Product specific application | Detection of insulated or conductive materials |
| Sensor name | XT5 |
| Sensor design | Cylindrical M18 |
| Size | 85 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Flush mountable |
| Material | Nickel copper alloy |
| Enclosure material | Nickel plated brass |
| Type of output signal | Discrete |
| Wiring technique | 4-wire |
| [Sn] nominal sensing distance | 5 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 with reverse polarity protection |
| Maximum delay response | 15 ms |
| IP degree of protection | IP67 conforming to IEC 60529<br>IP65 conforming to IEC 60529 |

### Complementary

| | |
|---|---|
| ISO thread | M18 x 1 |
| Detection face | Frontal |
| Front material | PBT |
| [Sa] assured operating distance | 0…3.6 mm |
| Adjustment zone | 2…7.5 mm |
| Differential travel | < 1...20 % Sr |
| Repeat accuracy | < 5 % Sr |
| Status LED | Supply state indication: 1 LED (green)<br>Output state indication: 1 LED (yellow) |
| Supply voltage limits | 10…30 V DC |
| Maximum residual current | 0.1 mA open state |
| Protection type | Short-circuit protection |
| Switching frequency | <= 40 Hz |
| Maximum voltage drop | <2.5 V (closed) |
| Current consumption | < 15 mA |
| Maximum delay first up | 300 ms |
| Maximum delay recovery | 15 ms |
| Maximum switching current | 200 mA |

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This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
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| | |
|---|---|
| Marking | CE<br>UKCA |
| Setting-up | Sensitivity by potentiometer |
| Threaded length | 50 mm |
| Length | 85 mm |
| Net weight | 0.08 kg |

## Environment

| | |
|---|---|
| Standards | EN/IEC 60947-5-2 |
| Product certifications | cULus |
| Ambient air temperature for operation | -25…70 °C |
| Electrical insulation class | Class III |
| 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<br>8 kV air conforming to IEC 61000-4-2 |
| Resistance to electromagnetic fields | 10 V/m conforming to IEC 61000-4-3 |
| Resistance to fast transients | 2 kV conforming to IEC 61000-4-4 |

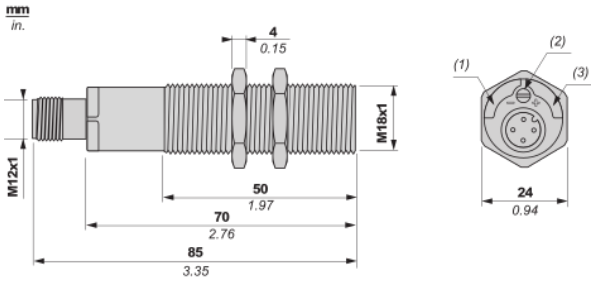
## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2 cm |
| Package 1 Width | 11 cm |
| Package 1 Length | 12.5 cm |
| Package 1 Weight | 61 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 120 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 7.32 kg |

## Offer Sustainability

| | |
|---|---|
| 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 |
| Mercury free | Yes |
| RoHS exemption information | Yes |

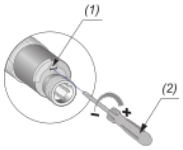
## Dimensions




(1) Output status LED (yellow)
(2) Adjustment potentiometer (sensitivity)
(3) Power ON LED (green)

## Mounting and Clearance

### Sensitivity adjustment

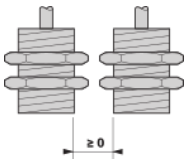



(1) Adjustment potentiometer
(2) Adjustment using suitable screwdriver (included with sensor)

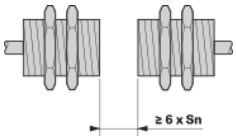
## Mounting and Clearance

### Minimum Mounting Distances

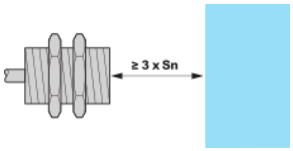
Side by side




Face to face




Facing a Metal Object



## Connections and schema

### Wiring diagram

4-wire DC, PNP, NO + NC output, M12 connector

