

# XS7C2A1PBM12

Inductive proximity sensors XS, inductive sensor XS7 40x40x70, PBT, Sn15 mm, 12...24 VDC, M12



## Main

|                                    |                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS                                                  |
| Series name                        | General purpose                                                                               |
| Sensor type                        | Inductive proximity sensor                                                                    |
| Device application                 | Mobile equipment                                                                              |
| Sensor name                        | XS7                                                                                           |
| Sensor design                      | Form 40 x 40 x 70                                                                             |
| Size                               | 70 mm                                                                                         |
| Body type                          | Fixed                                                                                         |
| Detector flush mounting acceptance | Flush mountable                                                                               |
| Material                           | Plastic                                                                                       |
| Enclosure material                 | PBT                                                                                           |
| Type of output signal              | Discrete                                                                                      |
| Wiring technique                   | 3-wire                                                                                        |
| [Sn] nominal sensing distance      | 15 mm                                                                                         |
| Discrete output function           | 1 NC                                                                                          |
| 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                                                 |
| Switching capacity in mA           | <= 200 mA with overload and short-circuit protection                                          |
| IP degree of protection            | IP67 conforming to IEC 60529<br>IP65 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                        |                                                          |
|------------------------|----------------------------------------------------------|
| Detection face         | 5 positions turret head                                  |
| Front material         | PBT                                                      |
| Operating zone         | 0...12 mm                                                |
| Differential travel    | 3...15% of Sr                                            |
| Repeat accuracy        | <= 3% of Sr                                              |
| Status LED             | Supply on: 1 LED (green)<br>Output state: 1 LED (yellow) |
| Supply voltage limits  | 10...36 V DC                                             |
| Switching frequency    | <= 300 Hz                                                |
| Maximum voltage drop   | <2 V (closed)                                            |
| Current consumption    | 0...15 mA no-load                                        |
| Maximum delay first up | 7.5 ms                                                   |
| Maximum delay response | 1.2 ms                                                   |
| Maximum delay recovery | 1.8 ms                                                   |
| Marking                | CE                                                       |
| Height                 | 40 mm                                                    |
| Length                 | 40 mm                                                    |

|            |          |
|------------|----------|
| Width      | 70 mm    |
| Net weight | 0.149 kg |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CCC<br>E2<br>UL<br>CSA                                                  |
| Ambient air temperature for operation | -25...70 °C                                                             |
| Ambient air temperature for storage   | -40...85 °C                                                             |
| Vibration resistance                  | 25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 50 gn for 11 ms conforming to EN 60068-2-27                             |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.141 kg |
| Package 1 Height | 0.450 dm |
| Package 1 width  | 0.430 dm |
| Package 1 Length | 0.900 dm |

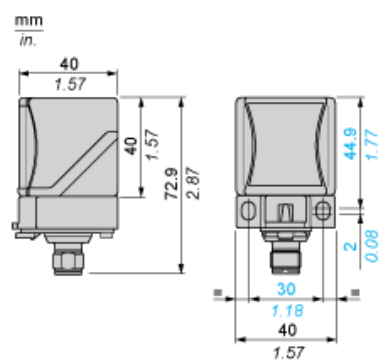
## Offer Sustainability

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                              |
| REACH Regulation           |  <a href="#">REACH Declaration</a>                                                                |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                                                                                                                |
| RoHS exemption information |  <a href="#">Yes</a>                                                                            |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>                                                  |

## Contractual warranty

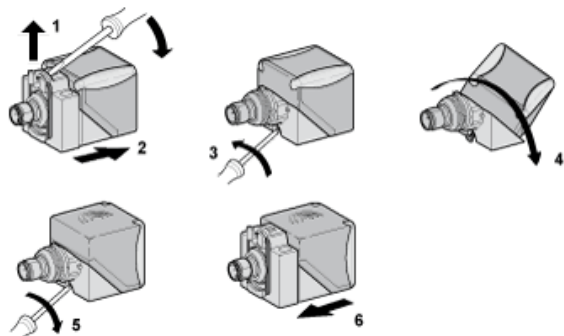
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



## Mounting

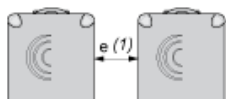
### Head Positions



### Setting-up Precautions

#### Minimum Mounting Distances (mm)

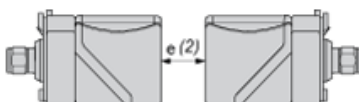
Side by Side



e (1) 60

≥

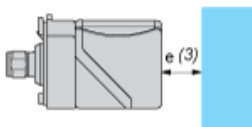
Face to Face



e (2) 120

≥

Facing a Metal Object



e (3) 45

≥

## Wiring Schemes

M12 connector



PNP



- 1 : (+)
- 2 : NC Output
- 3 : (-)
- 4 : Not connected