

# XS8C2A1PCM12

Inductive proximity sensors XS, inductive sensor XS8 40x40x70, PBT, Sn20 mm, 12...48 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                        | XS8                                                                                           |
| 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      | 0.79 in (20 mm)                                                                               |
| Discrete output function           | 1 NO + 1 NC                                                                                   |
| Output circuit type                | DC                                                                                            |
| Discrete output type               | PNP                                                                                           |
| Electrical connection              | Male connector M12, 4 pins                                                                    |
| [Us] rated supply voltage          | 12...48 V DC reverse polarity protection                                                      |
| Switching capacity in mA           | <= 200 mA 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

|                         |                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------|
| Safety level            | SIL 2 EN/IEC 61508<br>PL = d EN/ISO 13849-1<br>SILCL 2 IEC 62061                                      |
| Safety reliability data | MTTFd = 1546 years<br>PFHd = 7.4E-8 1/h<br>SFF = 92 %<br>DC = 75 % with appropriate safety controller |
| Detection face          | 5 positions turret head                                                                               |
| Front material          | PBT                                                                                                   |
| Operating zone          | 0.00...0.63 in (0...16 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...58 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                 | 1.57 in (40 mm)        |
| Length                 | 1.57 in (40 mm)        |
| Width                  | 2.76 in (70 mm)        |
| Net Weight             | 0.33 lb(US) (0.149 kg) |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Product Certifications                | CCC<br>TÜV<br>E2<br>UL<br>CSA           |
| Ambient Air Temperature for Operation | -13...158 °F (-25...70 °C)              |
| Ambient Air Temperature for Storage   | -40...185 °F (-40...85 °C)              |
| Vibration resistance                  | 25 gn +/- 2 mm 10...55 Hz)IEC 60068-2-6 |
| Shock resistance                      | 50 gn 11 msEN 60068-2-27                |

## Ordering and shipping details

|                   |                          |
|-------------------|--------------------------|
| Category          | 22486-SENSORS, PROXIMITY |
| Discount Schedule | DS2                      |
| GTIN              | 3389119057967            |
| Returnability     | Yes                      |
| Country of origin | ID                       |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 3.50 in (8.9 cm)        |
| Package 1 Width              | 1.69 in (4.3 cm)        |
| Package 1 Length             | 1.85 in (4.7 cm)        |
| Package 1 Weight             | 5.29 oz (150.0 g)       |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 42                      |
| Package 2 Height             | 5.91 in (15.0 cm)       |
| Package 2 Width              | 11.81 in (30.0 cm)      |
| Package 2 Length             | 15.75 in (40.0 cm)      |
| Package 2 Weight             | 14.83 lb(US) (6.728 kg) |

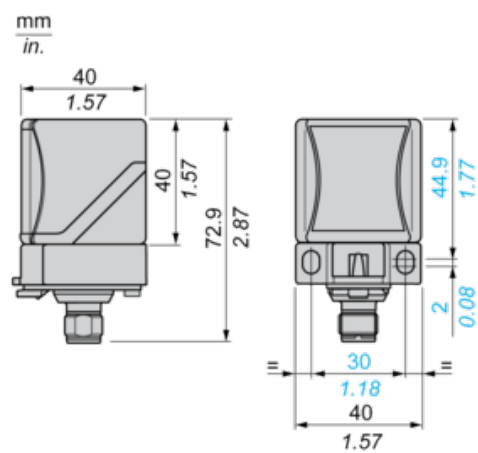
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                            |
| 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 Diisodecyl 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>                                                                                                                                                                                                                                                                                                                                                |
| 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

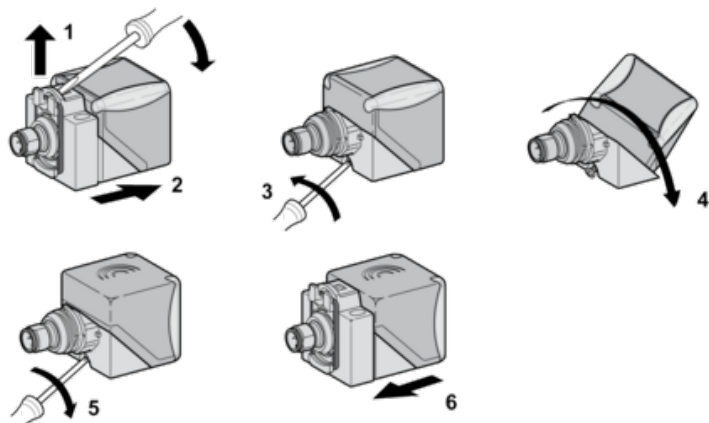
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



## Mounting

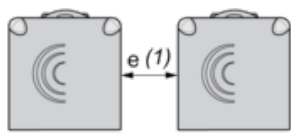
### Head Positions



### Setting-up Precautions

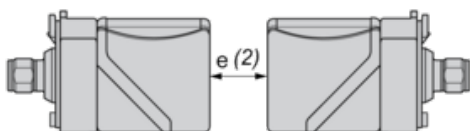
#### Minimum Mounting Distances (mm)

Side by Side



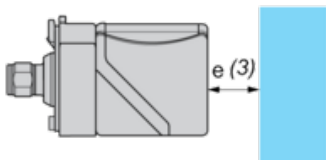
$e (1) \geq 80$

Face to Face



$e (2) \geq 160$

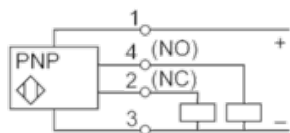
Facing a Metal Object



$e (3) \geq 60$

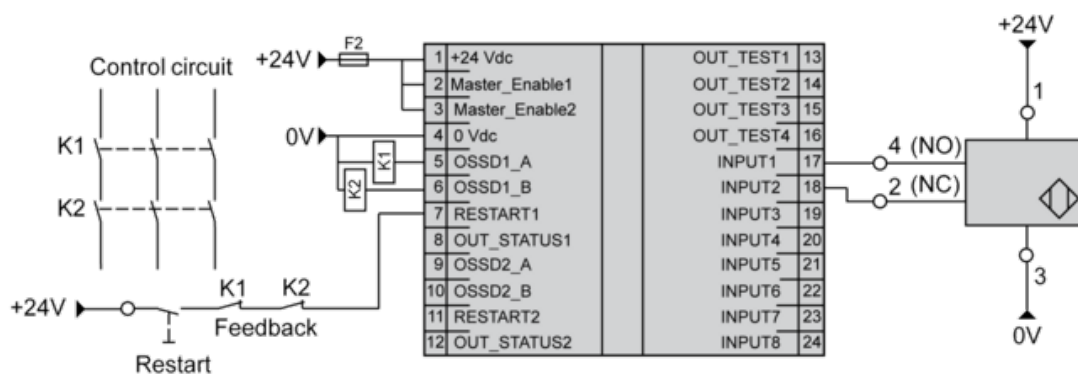
## Wiring Schemes

### 4-Wire DC



## SIL 2 Wiring Scheme

### With Preventa XPSMF40 Safety PLC



SFF : (Safe Failure Fraction): 92,68 %

DC : (Diagnosis Coverage): 75,8 %

# Mouser Electronics

Authorized Distributor

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[XS8C2A1PCM12](#)