

# XS8C2A1PCM12TF

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      | 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 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

|                         |   |
|-------------------------|---|
| Safety level            | SIL 2 conforming to IEC 61508<br>PL = d conforming to ISO 13849-1<br>SILCL 2 conforming to 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...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                 | 40 mm    |
| Length                 | 40 mm    |
| Width                  | 70 mm    |
| Net weight             | 0.149 kg |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | CCC[RETURN]TÜV[RETURN]E2[RETURN]UL[RETURN]CSA                           |
| Ambient air temperature for operation | -40...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 IEC 60068-2-27                            |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 8.9 cm  |
| Package 1 Width              | 4.3 cm  |
| Package 1 Length             | 4.7 cm  |
| Package 1 Weight             | 142.0 g |

## Offer Sustainability

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| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a> |
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## Contractual warranty

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