

# XS1N18PC410L1TF

inductive sensor XS1 M18, L37mm, brass,  
Sn5mm, 12..24VDC, cable 5m



## Main

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS         |
| Series name                        | General purpose                                      |
| Sensor type                        | Inductive proximity sensor                           |
| Device application                 | Mobile equipment                                     |
| Sensor name                        | XS1                                                  |
| Sensor design                      | Cylindrical M18                                      |
| Size                               | 40 mm                                                |
| Body type                          | Fixed                                                |
| Detector flush mounting acceptance | Flush mountable                                      |
| Material                           | Metal                                                |
| Type of output signal              | Discrete                                             |
| Wiring technique                   | 4-wire                                               |
| [Sn] nominal sensing distance      | 5 mm                                                 |
| Discrete output function           | 1 NO + 1 NC                                          |
| Output circuit type                | DC                                                   |
| Discrete output type               | PNP                                                  |
| Electrical connection              | Cable                                                |
| Cable length                       | 5 m                                                  |
| [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            | IP68 conforming to IEC 60529<br>IP65                 |

## 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 = 1810 years<br>PFHd = 62.9E-9 1/h<br>SFF = 92 %<br>DC = 74 % with appropriate safety controller |
| Service life             | 20 year(s)                                                                                             |
| Thread type              | M18 x 1                                                                                                |
| Detection face           | Frontal                                                                                                |
| Front material           | PPS                                                                                                    |
| Enclosure material       | Nickel plated brass                                                                                    |
| Operating zone           | 0...4 mm                                                                                               |
| Differential travel      | 1...15% of Sr                                                                                          |
| Cable composition        | 4 x 0.22 mm <sup>2</sup>                                                                               |
| Wire insulation material | PVC                                                                                                    |
| Status LED               | Output state: 1 LED (yellow)                                                                           |
| Supply voltage limits    | 9...36 V DC                                                                                            |
| Switching frequency      | <= 2000 Hz                                                                                             |
| Maximum voltage drop     | <2 V (closed)                                                                                          |
| Current consumption      | 0...10 mA no-load                                                                                      |
| Maximum delay first up   | 5 ms                                                                                                   |

|                        |         |
|------------------------|---------|
| Maximum delay response | 0.15 ms |
| Maximum delay recovery | 0.35 ms |
| Marking                | CE      |
| Threaded length        | 28 mm   |
| Length                 | 40 mm   |
| Net weight             | 0.1 kg  |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Standards                             | ISO 13849-1<br>IEC 62061                                                |
| Product certifications                | TÜV[RETURN]UL[RETURN]CSA[RETURN]E2                                      |
| 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             | 8.0 cm  |
| Package 1 Width              | 8.0 cm  |
| Package 1 Length             | 14.8 cm |
| Package 1 Weight             | 259.0 g |

## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| Circularity Profile                        |  <a href="#">End of Life Information</a>                                                                                                                                                                                                                                                       |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |

## Contractual warranty

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