

# XS1N18PC410L2

inductive sensor XS1 M18 - L36.5mm - brass -  
Sn5mm - 12..24VDC - cable 10m



## Main

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Range of product                   | OsiSense XS                                          |
| Series name                        | General purpose                                      |
| Sensor type                        | Inductive proximity sensor                           |
| Device application                 | Mobile equipment                                     |
| Sensor name                        | XS1                                                  |
| Sensor design                      | Cylindrical M18                                      |
| Size                               | 37 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                       | 10 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 EN/IEC 61508<br>PL = d conforming to EN/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 yr                                                                                                      |
| 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 | PvR                                                                                                        |
| Status LED               | 1 LED yellow for output state                                                                              |
| Supply voltage limits    | 9...36 V DC                                                                                                |
| Switching frequency      | <= 2000 Hz                                                                                                 |
| Voltage drop             | <= 2 V at closed state                                                                                     |

|                     |                      |
|---------------------|----------------------|
| Current consumption | 0...10 mA at no-load |
| Delay first up      | <= 5 ms              |
| Delay response      | <= 0.15 ms           |
| Delay recovery      | <= 0.35 ms           |
| Marking             | CE                   |
| Threaded length     | 29 mm                |
| Height              | 18 mm                |
| Length              | 41 mm                |
| Product weight      | 0.1 kg<br>0.42 kg    |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Standards                             | EN/ISO 13849-1<br>IEC 62061                                             |
| Product certifications                | CSA<br>TÜV<br>UL<br>E2                                                  |
| 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 IEC 60068-2-27                            |

## Offer Sustainability

|                                  |                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                                        |
| RoHS (date code: YYWW)           | Compliant - since 0811 - <a href="#">Schneider Electric declaration of conformity</a>                                                        |
| REACH                            | Reference not containing SVHC above the threshold                                                                                            |
| Product environmental profile    | Available  <a href="#">Download Product Environmental</a> |
| Product end of life instructions | Available  <a href="#">Download End Of Life Manual</a>    |