

# XS1N12PC419D

inductive sensor XS1 M12 - PNP NO&NC -  
Flush - Sn4mm - 12..24VDC - M12



## Main

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| Range of product                   | OsiSense XS                                                           |
| Series name                        | General purpose                                                       |
| Sensor type                        | Inductive proximity sensor                                            |
| Device application                 | Light hoisting<br>Mobile equipment                                    |
| Sensor name                        | XS1                                                                   |
| Sensor design                      | Cylindrical M12                                                       |
| Size                               | 48 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      | 4 mm                                                                  |
| Discrete output function           | 1 NO + 1 NC                                                           |
| Output circuit type                | DC                                                                    |
| Discrete output type               | PNP                                                                   |
| Electrical connection              | 4 pins M12 male connector                                             |
| [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<br>IP65 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                         |                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------|
| Safety level            | SILCL 2 conforming to IEC 62061<br>PL = d conforming to EN/ISO 13849-1<br>SIL 2 conforming to EN/IEC 61508 |
| 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             | M12 x 1                                                                                                    |
| Detection face          | Frontal                                                                                                    |
| Front material          | PPS                                                                                                        |
| Enclosure material      | Nickel plated brass                                                                                        |
| Operating zone          | 0...3.2 mm                                                                                                 |
| Differential travel     | 3...15% of Sr                                                                                              |
| Status LED              | 1 LED yellow for output state                                                                              |
| Supply voltage limits   | 9...36 V DC                                                                                                |
| Switching frequency     | <= 5000 Hz                                                                                                 |
| Voltage drop            | <= 2 V at closed state                                                                                     |
| Current consumption     | 0...10 mA at no-load                                                                                       |
| Delay first up          | <= 5 ms                                                                                                    |
| Delay response          | <= 0.1 ms                                                                                                  |

|                 |           |
|-----------------|-----------|
| Delay recovery  | <= 0.1 ms |
| Marking         | CE        |
| Threaded length | 29 mm     |
| Height          | 18 mm     |
| Length          | 48 mm     |
| Product weight  | 0.02 kg   |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Standards                             | IEC 62061<br>EN/ISO 13849-1                                             |
| Product certifications                | E2<br>UL<br>CSA<br>TÜV                                                  |
| 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 0844 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                                                                  |
| Product environmental profile    | Available <a href="#">Product Environmental</a>                                                                                    |
| Product end of life instructions | Available <a href="#">End Of Life Manual</a>                                                                                       |