

# XS1N18PC410L2

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



Product availability: Non-Stock - Not normally stocked in distribution facility



## 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      | 0.2 in (5 mm)                                        |
| Discrete output function           | 1 NO + 1 NC                                          |
| Output circuit type                | DC                                                   |
| Discrete output type               | PNP                                                  |
| Electrical connection              | Cable                                                |
| Cable length                       | 32.81 ft (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            | IP65<br>IP68 conforming to IEC 60529                 |

## 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              | M18 x 1                                                                                                    |
| Detection face           | Frontal                                                                                                    |
| Front material           | PPS                                                                                                        |
| Enclosure material       | Nickel plated brass                                                                                        |
| Operating zone           | 0...0.16 in (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 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     | 1.14 in (29 mm)                               |
| Height              | 0.71 in (18 mm)                               |
| Length              | 1.61 in (41 mm)                               |
| Product weight      | 0.22 lb(US) (0.1 kg)<br>0.93 lb(US) (0.42 kg) |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Standards                             | EN/ISO 13849-1<br>IEC 62061                                             |
| Product certifications                | UL<br>E2<br>TÜV<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 amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 50 gn 11 ms conforming to IEC 60068-2-27                                |

## Ordering and shipping details

|                       |                            |
|-----------------------|----------------------------|
| Category              | 22486 - SENSORS, PROXIMITY |
| Discount Schedule     | DS2                        |
| GTIN                  | 003389110917147            |
| Nbr. of units in pkg. | 1                          |
| Package weight(Lbs)   | 1                          |
| Returnability         | N                          |
| Country of origin     | FR                         |

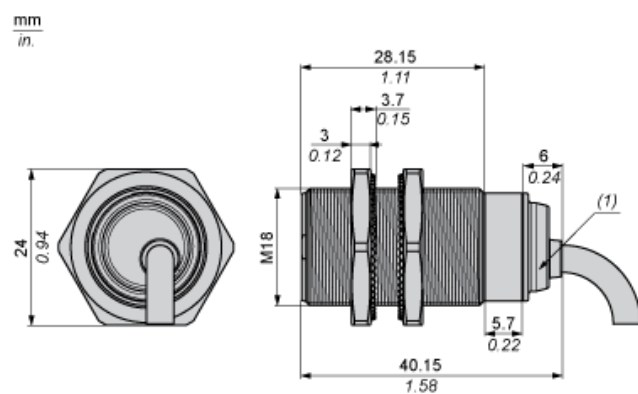
## Offer Sustainability

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                              |
| RoHS (date code: YYWW)           | Compliant - since 0811 - 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                                                                                                                          |
| Product end of life instructions | Available                                                                                                                          |
| California proposition 65        | WARNING: This product can expose you to chemicals including:                                                                       |
| ----- Substance 1                | Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                        |
| ----- Substance 2                | Diisodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.          |
| ----- More information           | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                      |

## Contractual warranty

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

## Dimensions



(1) LED

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Minimum Mounting Distances

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Side by side



e (1) 10 mm/0.39 in.

≥

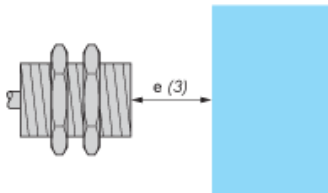
Face to face



e (2) 60 mm/2.36 in.

≥

Facing a metal object

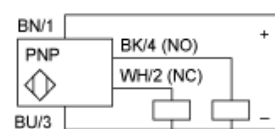


e (3) 15 mm/0.60 in

≥

## Wiring Schemes

### PNP 4-wire



BU : Blue  
BN : Brown  
BK : Black  
WH : White

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Performance Curves

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Standard Steel Target : 18x18x1 mm



- (1) Pick-up points
- (2) Drop-out points (object approaching from the side)
- (y) Sensing distance in mm

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Authorized Distributor

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