

# XS4P12PC410

inductive sensor XS4 M12 - L33mm - PPS -  
Sn4mm - 12..24VDC - cable 2m



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                        | XS4                                                  |
| Sensor design                      | Cylindrical M12                                      |
| Size                               | 33 mm                                                |
| Body type                          | Fixed                                                |
| Detector flush mounting acceptance | Non flush mountable                                  |
| Material                           | Plastic                                              |
| Type of output signal              | Discrete                                             |
| Wiring technique                   | 4-wire                                               |
| [Sn] nominal sensing distance      | 0.16 in (4 mm)                                       |
| Discrete output function           | 1 NO + 1 NC                                          |
| Output circuit type                | DC                                                   |
| Discrete output type               | PNP                                                  |
| Electrical connection              | Cable                                                |
| Cable length                       | 6.56 ft (2 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 double insulation 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 = 75 % with appropriate safety controller     |
| Service life             | 20 yr                                                                                                      |
| Thread type              | M12 x 1                                                                                                    |
| Detection face           | Frontal                                                                                                    |
| Front material           | PPS                                                                                                        |
| Enclosure material       | PPS                                                                                                        |
| Operating zone           | 0...0.13 in (0...3.2 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    | 10...36 V DC                                                                                               |
| Switching frequency      | <= 5000 Hz                                                                                                 |
| Voltage drop             | <= 2 V (closed                                                                                             |
| Current consumption      | 0...10 mA (no-load)                                                                                        |

|                 |                       |
|-----------------|-----------------------|
| Delay first up  | <= 5 ms               |
| Delay response  | <= 0.1 ms             |
| Delay recovery  | <= 0.1 ms             |
| Marking         | CE                    |
| Threaded length | 0.98 in (25 mm)       |
| Height          | 0.47 in (12 mm)       |
| Length          | 1.3 in (33 mm)        |
| Product weight  | 0.15 lb(US) (0.07 kg) |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Standards                             | IEC 62061<br>EN/ISO 13849-1                                             |
| Product certifications                | UL<br>CSA<br>E2<br>TÜV                                                  |
| 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 (duration = 11 ms) conforming to IEC 60068-2-27                   |

## Ordering and shipping details

|                       |                            |
|-----------------------|----------------------------|
| Category              | 22486 - SENSORS, PROXIMITY |
| Discount Schedule     | DS2                        |
| GTIN                  | 00785901157526             |
| Nbr. of units in pkg. | 1                          |
| Package weight(Lbs)   | 0.19                       |
| Returnability         | N                          |
| Country of origin     | FR                         |

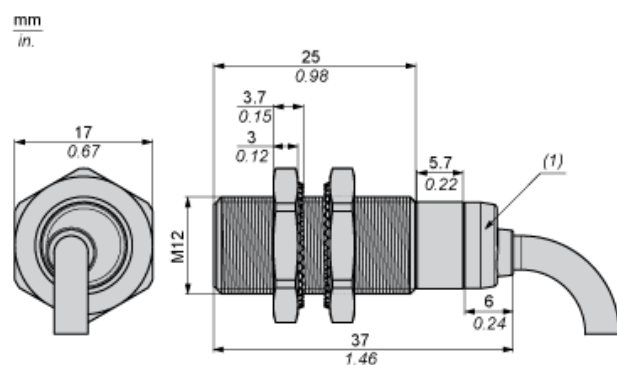
## Offer Sustainability

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                              |
| RoHS (date code: YYWW)           | Compliant - since 0838 - 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                | Di-isodecyl 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

### Minimum Mounting Distances

Side by side



e (1) 16 mm/0.63 in.

≥

Face to face



e (2) 48 mm/1.89 in.

≥

Facing a metal object



e (3) 12 mm/0.47 in.

≥

Mounted in a metal support

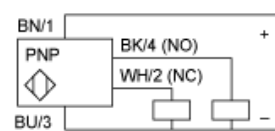


d ≥ 36 mm/1.42 in.

h ≥ 8 mm/0.31 in.

## Wiring Schemes

### PNP 4-wire



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

## Performance Curves

Standard Steel Target : 12x12x1 mm



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

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