

# XS4P18PC410D

Inductive proximity sensors XS, inductive sensor XS4 M18, L48mm, PPS, Sn8mm, 12...24 VDC, M12



## Main

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Range of Product                   | Telemecanique Inductive proximity sensors XS    |
| Series name                        | General purpose                                 |
| Sensor Type                        | Inductive proximity sensor                      |
| Sensor name                        | XS4                                             |
| Sensor design                      | Cylindrical M18                                 |
| Size                               | 48 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      | 0.31 in (8 mm)                                  |
| Discrete output function           | 1 NO + 1 NC                                     |
| Output circuit type                | DC                                              |
| Discrete output type               | PNP                                             |
| Electrical connection              | Male connector M12, 4 pins                      |
| [Us] rated supply voltage          | 12...24 V DC reverse polarity protection        |
| Switching capacity in mA           | <= 200 mA overload and short-circuit protection |
| IP degree of protection            | IP67 conforming to IEC 60529                    |

## Complementary

|                        |                             |
|------------------------|-----------------------------|
| Thread type            | M18 x 1                     |
| Detection face         | Frontal                     |
| Front material         | PPS                         |
| Enclosure Material     | PPS                         |
| Operating zone         | 0.00...0.25 in (0...6.4 mm) |
| Differential travel    | 1...15% of Sr               |
| Status LED             | Output state 1 LED yellow)  |
| Supply voltage limits  | 10...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        | 1.14 in (29 mm)             |
| Height                 | 0.71 in (18 mm)             |
| Length                 | 1.89 in (48 mm)             |
| Net Weight             | 0.09 lb(US) (0.04 kg)       |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Product Certifications                | CSA<br>UL                               |
| 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 +/- 2 mm 10...55 Hz)IEC 60068-2-6 |
| Shock resistance                      | 50 gn 11 ms IEC 60068-2-27              |

## Ordering and shipping details

|                   |                          |
|-------------------|--------------------------|
| Category          | 22486-SENSORS, PROXIMITY |
| Discount Schedule | DS2                      |
| GTIN              | 3389110919523            |
| Returnability     | No                       |
| Country of origin | FR                       |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 1.65 in (4.2 cm)       |
| Package 1 Width              | 2.56 in (6.5 cm)       |
| Package 1 Length             | 3.74 in (9.5 cm)       |
| Package 1 Weight             | 1.23 oz (35.0 g)       |
| Unit Type of Package 2       | S01                    |
| Number of Units in Package 2 | 22                     |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 Width              | 5.91 in (15 cm)        |
| Package 2 Length             | 15.75 in (40 cm)       |
| Package 2 Weight             | 2.22 lb(US) (1.009 kg) |
| Package 3 Height             | 5.91 in (15 cm)        |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                                                 |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                                    |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                                     |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                                                                                                           |

## Contractual warranty

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

$$\frac{\text{mm}}{\text{in.}}$$


## Minimum Mounting Distances

Side by side



e (1) 32 mm/1.26 in.

≥

Face to face



e (2) 96 mm/3.78 in.

≥

Facing a metal object



e (3) 24 mm/0.94 in.

≥

Mounted in a metal support



d ≥ 56 mm/2.20 in.

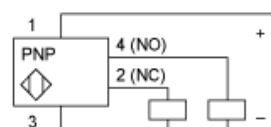
h ≥ 16 mm/0.63 in.

## Wiring Schemes

M12 connector



PNP 4-wire

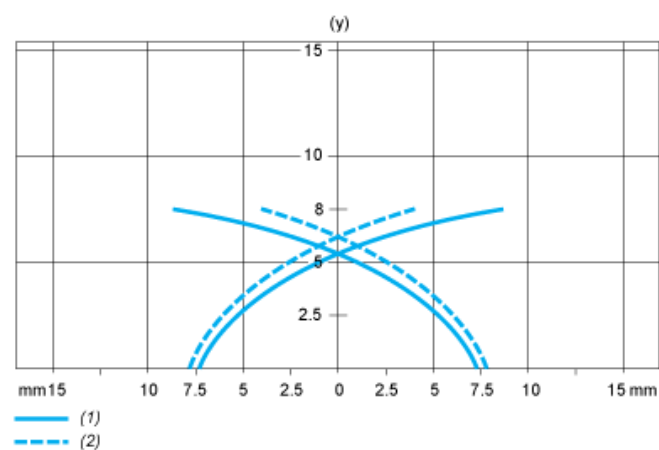


---

Performance Curves

---

Standard Steel Target : 24x24x1 mm



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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Telemecanique Sensors:](#)

[XS4P18PC410D](#)