

# XS4P12PB370D

inductive sensor XS4 M12 - L61mm - PPS -  
Sn4mm - 12..48VDC - M12



## Main

|                                    |                                                         |
|------------------------------------|---------------------------------------------------------|
| Range of product                   | OsiSense XS                                             |
| Series name                        | General purpose                                         |
| Sensor type                        | Inductive proximity sensor                              |
| Sensor name                        | XS4                                                     |
| Sensor design                      | Cylindrical M12                                         |
| Size                               | 61 mm                                                   |
| Body type                          | Fixed                                                   |
| Detector flush mounting acceptance | Non flush mountable                                     |
| Material                           | Plastic                                                 |
| Type of output signal              | Discrete                                                |
| Wiring technique                   | 3-wire                                                  |
| [Sn] nominal sensing distance      | 4 mm                                                    |
| Discrete output function           | 1 NC                                                    |
| Output circuit type                | DC                                                      |
| Discrete output type               | PNP                                                     |
| Electrical connection              | Male connector M12, 4 pins                              |
| [Us] rated supply voltage          | 12...48 V DC with reverse polarity protection           |
| Switching capacity in mA           | <= 200 mA DC with overload and short-circuit protection |
| IP degree of protection            | IP67 conforming to IEC 60529                            |

## Complementary

|                        |                              |
|------------------------|------------------------------|
| Thread type            | M12 x 1                      |
| Detection face         | Frontal                      |
| Front material         | PPS                          |
| Enclosure material     | PPS                          |
| Operating zone         | 0...3.2 mm                   |
| Differential travel    | 1...15% of Sr                |
| Status LED             | Output state: 1 LED (yellow) |
| Supply voltage limits  | 10...58 V DC                 |
| Switching frequency    | <= 5000 Hz                   |
| Maximum voltage drop   | <2 V (closed)                |
| Current consumption    | 0...10 mA no-load            |
| Maximum delay first up | 10 ms                        |
| Maximum delay response | 0.1 ms                       |
| Maximum delay recovery | 0.1 ms                       |
| Marking                | CE                           |
| Threaded length        | 42 mm                        |
| Height                 | 18 mm                        |
| Length                 | 61 mm                        |
| Net weight             | 0.065 kg                     |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CCC<br>UL<br>CSA                                                        |
| 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                            |

## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Weight             | 34 g   |
| Package 1 Height             | 4.5 cm |
| Package 1 width              | 7.2 cm |
| Package 1 Length             | 8.2 cm |

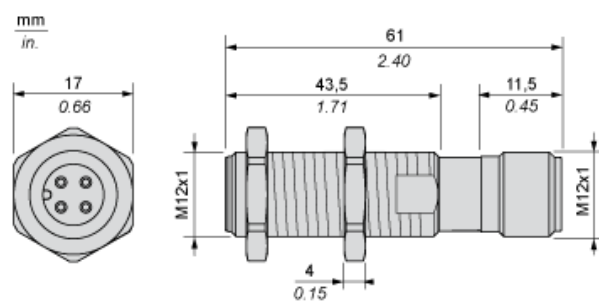
## Offer Sustainability

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                          |
| 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 |
|----------|-----------|

## Dimensions



## Minimum Mounting Distances

Side by side



$e (1) \geq 16 \text{ mm}/0.63 \text{ in.}$

$\geq$

Face to face



$e (2) \geq 48 \text{ mm}/1.89 \text{ in.}$

$\geq$

Facing a metal object



$e (3) \geq 12 \text{ mm}/0.47 \text{ in.}$

$\geq$

Mounted in a metal support



$d \geq 36 \text{ mm}/1.42 \text{ in.}$

$h \geq 8 \text{ mm}/0.31 \text{ in.}$

## Wiring Schemes

M12 connector



PNP



- 1 : (+)
- 2 : NC Output
- 3 : (-)
- 4 : Not connected

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Performance Curves

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Standard Steel Target : 12x12x1 mm



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