

# XS512B1PAL5

inductive sensor XS5 M12 - L35mm - brass -  
Sn2mm - 12..24VDC - cable 5m



## Main

|                                    |                                                     |
|------------------------------------|-----------------------------------------------------|
| Range of product                   | OsiSense XS                                         |
| Series name                        | General purpose                                     |
| Sensor type                        | Inductive proximity sensor                          |
| Device application                 | -                                                   |
| Sensor name                        | XS5                                                 |
| Sensor design                      | Cylindrical M12                                     |
| Size                               | 37 mm                                               |
| Body type                          | Fixed                                               |
| Detector flush mounting acceptance | Flush mountable                                     |
| Material                           | Metal                                               |
| Type of output signal              | Discrete                                            |
| Wiring technique                   | 3-wire                                              |
| [Sn] nominal sensing distance      | 0.08 in (2 mm)                                      |
| Discrete output function           | 1 NO                                                |
| Output circuit type                | DC                                                  |
| Discrete output type               | PNP                                                 |
| Electrical connection              | cable                                               |
| Cable length                       | 16.40 ft (5 m)                                      |
| [Us] rated supply voltage          | 12...24 V DC reverse polarity protection            |
| Switching capacity in mA           | <= 200 mA DC overload and short-circuit protection  |
| IP degree of protection            | IP68 double insulation IEC 60529<br>IP69K DIN 40050 |

## Complementary

|                          |                             |
|--------------------------|-----------------------------|
| Thread type              | M12 x 1                     |
| Detection face           | Frontal                     |
| Front material           | PPS                         |
| Enclosure material       | Nickel Plated Brass         |
| Operating zone           | 0.00...0.06 in (0...1.6 mm) |
| Differential travel      | 1...15% of Sr               |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>    |
| Wire insulation material | PvR                         |
| Status LED               | Output state 1 LED yellow)  |
| Supply voltage limits    | 10...36 V DC                |
| Switching frequency      | <= 5000 Hz                  |
| Maximum voltage drop     | <2 V closed)                |
| Current consumption      | <= 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          | 0.98 in (25 mm)             |
| Height                   | 0.47 in (12 mm)             |

|            |                        |
|------------|------------------------|
| Length     | 1.38 in (35 mm)        |
| Net Weight | 0.43 lb(US) (0.195 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                  | 03389110127720             |
| Nbr. of units in pkg. | 1                          |
| Package weight(Lbs)   | 0.37 lb(US) (0.17 kg)      |
| Returnability         | No                         |
| Country of origin     | FR                         |

## Packing Units

|                              |                      |
|------------------------------|----------------------|
| Unit Type of Package 1       | PCE                  |
| Package 1 Height             | 1.54 in (3.9 cm)     |
| Package 1 width              | 5.08 in (12.9 cm)    |
| Package 1 Length             | 5.24 in (13.3 cm)    |
| Unit Type of Package 2       | BAG                  |
| Number of Units in Package 2 | 1                    |
| Package 2 Weight             | 5.93 oz (168 g)      |
| Package 2 Height             | 1.77 in (4.5 cm)     |
| Package 2 width              | 9.84 in (25 cm)      |
| Package 2 Length             | 7.87 in (20 cm)      |
| Unit Type of Package 3       | S02                  |
| Number of Units in Package 3 | 22                   |
| Package 3 Weight             | 7.94 lb(US) (3.6 kg) |
| Package 3 Height             | 5.91 in (15 cm)      |
| Package 3 width              | 11.81 in (30 cm)     |
| Package 3 Length             | 15.75 in (40 cm)     |

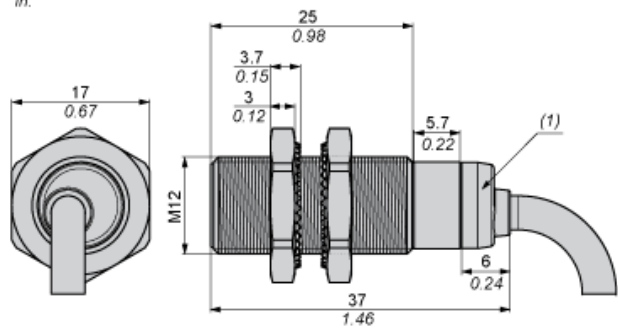
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
|----------|-----------|

## Dimensions

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


(1) LED

### Minimum Mounting Distances

Side by side



e (1) 4 mm/0.16 in.

≥

Face to face



e (2) 24 mm/0.94 in.

≥

Facing a metal object



e (3) 6 mm/0.24 in.

≥

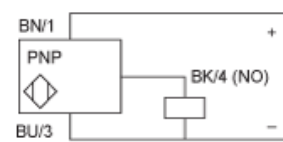
### Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

PNP



BU : Blue  
BN : Brown  
BK : Black

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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