

# XS218BLPAL2

inductive sensor XS2 M18 - L53mm - brass -  
Sn8mm - 12..24VDC - cable 2m



## Main

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Range of product              | OsiSense XS                                          |
| Series name                   | General purpose                                      |
| Sensor type                   | Inductive proximity sensor                           |
| Sensor name                   | XS2                                                  |
| Sensor design                 | Cylindrical M18                                      |
| Size                          | 53 mm                                                |
| Body type                     | Fixed                                                |
| Enclosure material            | Nickel plated brass                                  |
| Type of output signal         | Discrete                                             |
| Wiring technique              | 3-wire                                               |
| [Sn] nominal sensing distance | 8 mm                                                 |
| Discrete output function      | 1 NO                                                 |
| Discrete output type          | PNP                                                  |
| Electrical connection         | Cable                                                |
| Cable length                  | 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       | IP67 conforming to IEC 60529                         |

## Complementary

|                                    |                              |
|------------------------------------|------------------------------|
| ISO thread                         | M18 x 1                      |
| Detection face                     | Frontal                      |
| Detector flush mounting acceptance | Non flush mountable          |
| Material                           | Metal                        |
| Front material                     | PBT                          |
| Operating zone                     | 0...6.4 mm                   |
| Differential travel                | 1...15% of Sr                |
| Output circuit type                | DC                           |
| Cable composition                  | 3 x 0.14 mm <sup>2</sup>     |
| Wire insulation material           | PVC                          |
| Status LED                         | Output state: 1 LED (yellow) |
| Supply voltage limits              | 10...36 V DC                 |
| Switching frequency                | <= 500 Hz                    |
| Maximum voltage drop               | <2 V (closed)                |
| Current consumption                | <= 10 mA no-load             |
| Maximum delay first up             | 15 ms                        |
| Maximum delay response             | 0.1 ms                       |
| Maximum delay recovery             | 1 ms                         |
| Marking                            | CE                           |
| Threaded length                    | 33 mm                        |
| Height                             | 18 mm                        |
| Length                             | 53 mm                        |
| Net weight                         | 0.105 kg                     |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| 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             | 95 g    |
| Package 1 Height             | 2 cm    |
| Package 1 width              | 10.5 cm |
| Package 1 Length             | 11.5 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 |
|----------|-----------|

Technical drawing of a 1/2 inch NPT female plug. The drawing includes a top view and a side view. The top view shows a hexagonal plug with a central threaded hole. The side view shows the plug with a threaded section and a flange. Dimensions are provided in millimeters (mm) and inches (in.).

Dimensions (mm / in.):

- Overall length: 40.4 / 1.59
- Threaded section length: 32.4 / 1.28
- Hexagonal section diameter: 24 / 0.94
- Threaded section diameter: 18 / 0.71
- Flange diameter: 52.9 / 2.08
- Flange thickness: 3 / 0.12
- Threaded section diameter: 8 / 0.31

(1) LED

### 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

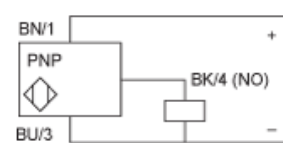


d ≥ 56 mm/2.20 in.

h ≥ 16 mm/0.63 in.

## Wiring Schemes

PNP



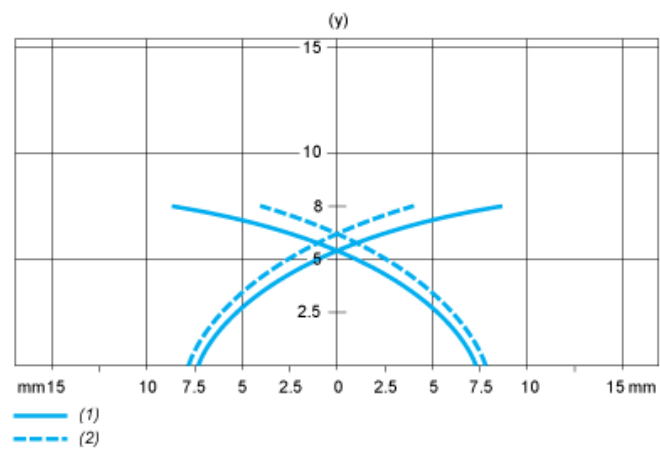
BU : Blue  
BN : Brown  
BK : Black

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Performance Curves

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Standard Steel Target : 24x24x1 mm



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