

# XS218B4PBL2

inductive sensor XS2 M18 - L41mm - brass -  
Sn16mm - 12..24VDC - cable 2m



## Main

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Range of product                   | OsiSense XS                                     |
| Series name                        | General purpose                                 |
| Sensor type                        | Inductive proximity sensor                      |
| Device application                 | Mobile equipment                                |
| Sensor name                        | XS2                                             |
| Sensor design                      | Cylindrical M18                                 |
| Size                               | 41 mm                                           |
| Body type                          | Fixed                                           |
| Detector flush mounting acceptance | Non flush mountable                             |
| Material                           | Metal                                           |
| Type of output signal              | Discrete                                        |
| Wiring technique                   | 3-wire                                          |
| [Sn] nominal sensing distance      | 0.63 in (16 mm)                                 |
| Discrete output function           | 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 overload and short-circuit protection |
| IP degree of protection            | IP65 IEC 60529<br>IP67 DIN 40050<br>IP69K       |

## Complementary

|                |         |
|----------------|---------|
| Thread type    | M18 x 1 |
| Detection face | Frontal |

|                          |                              |
|--------------------------|------------------------------|
| Front material           | PPS                          |
| Enclosure material       | Nickel plated brass          |
| Sensing range            | > 15...40 mm                 |
| Operating zone           | 0.00...0.50 in (0...12.8 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      | <= 1000 Hz                   |
| Maximum voltage drop     | <2 V closed)                 |
| Current consumption      | <= 10 mA no-load             |
| Maximum delay first up   | 15 ms                        |
| Maximum delay response   | 0.3 ms                       |
| Maximum delay recovery   | 0.7 ms                       |
| Marking                  | CE                           |
| Threaded length          | 0.83 in (21 mm)              |
| Length                   | 1.61 in (41 mm)              |
| Net weight               | 0.23 lb(US) (0.105 kg)       |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Product certifications                | CSA<br>UL<br>E2                         |
| 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              |

## Packing Units

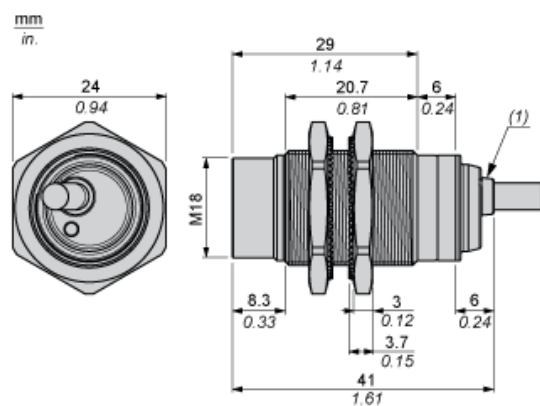
|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Weight             | 3.77 oz (107 g)        |
| Package 1 Height             | 1.65 in (4.2 cm)       |
| Package 1 width              | 3.82 in (9.7 cm)       |
| Package 1 Length             | 5.12 in (13 cm)        |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 22                     |
| Package 2 Weight             | 5.94 lb(US) (2.695 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 11.81 in (30 cm)       |
| Package 2 Length             | 15.75 in (40 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)<br><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>                                                           |

## Dimensions

### Pre-cabled

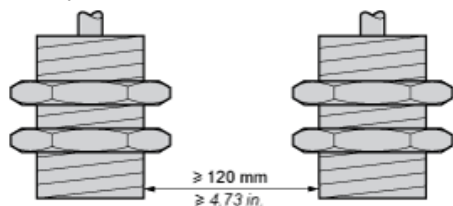


(1) Yellow LED (Output state indication)

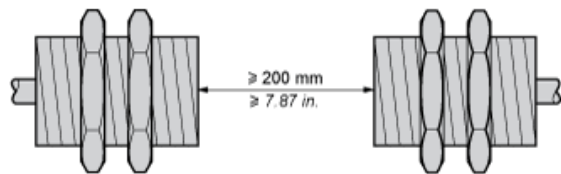
## Mounting and Clearance

### Minimum Mounting Distances

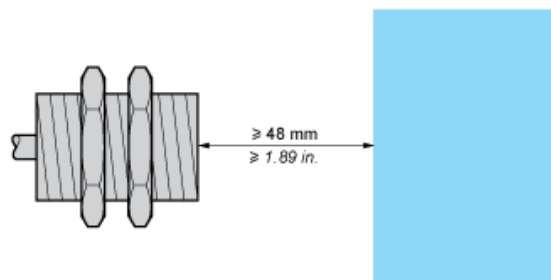
#### Side by Side



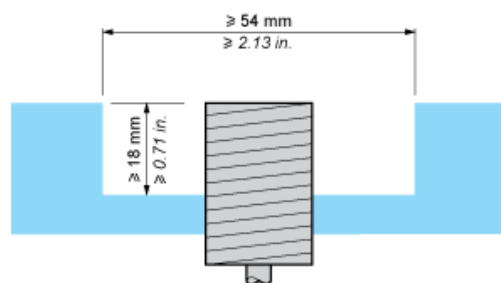
#### Face to Face



#### Facing a Metal Object



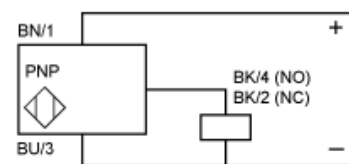
#### Mounted in a Metal Support



## Connection and Schema

### Wiring Schemes

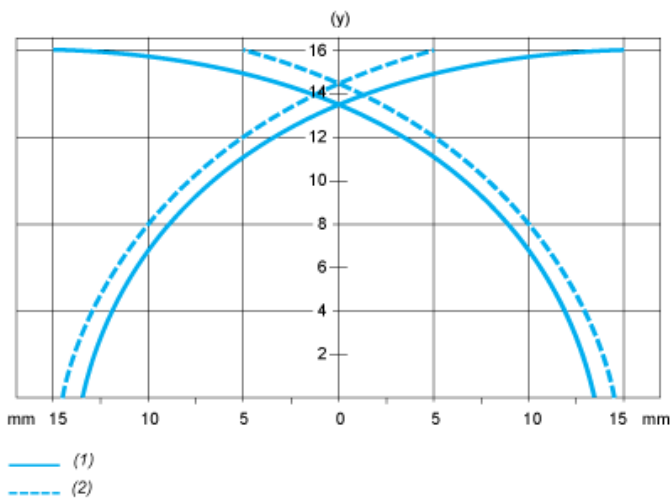
PNP 3-wire



BN : Brown  
BK : Black  
BU : Blue

Performance Curves

Standard Steel Target: 24 x 24 x 1 mm  
Operating zone: 0...12.8 mm



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