

# XS218B4PAL5

inductive sensor XS2 M18 - L41mm - brass -  
Sn16mm - 12..24VDC - cable 5m



## 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      | 16 mm                                                                 |
| Discrete output function           | 1 NO                                                                  |
| Output circuit type                | DC                                                                    |
| Discrete output type               | PNP                                                                   |
| Electrical connection              | Cable                                                                 |
| Cable length                       | 5 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            | IP65 conforming to IEC 60529<br>IP67 conforming to DIN 40050<br>IP69K |

## Complementary

|                          |                               |
|--------------------------|-------------------------------|
| Thread type              | M18 x 1                       |
| Detection face           | Frontal                       |
| Front material           | PPS                           |
| Enclosure material       | Nickel plated brass           |
| Operating zone           | 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               | 1 LED yellow for output state |
| Supply voltage limits    | 10...36 V DC                  |
| Switching frequency      | <= 1000 Hz                    |
| Voltage drop             | <= 2 V at closed state        |
| Current consumption      | <= 10 mA at no-load           |
| Delay first up           | <= 15 ms                      |
| Delay response           | <= 0.3 ms                     |
| Delay recovery           | <= 0.7 ms                     |
| Marking                  | CE                            |
| Threaded length          | 21 mm                         |

|                |         |
|----------------|---------|
| Length         | 41 mm   |
| Product weight | 0.19 kg |

## Environment

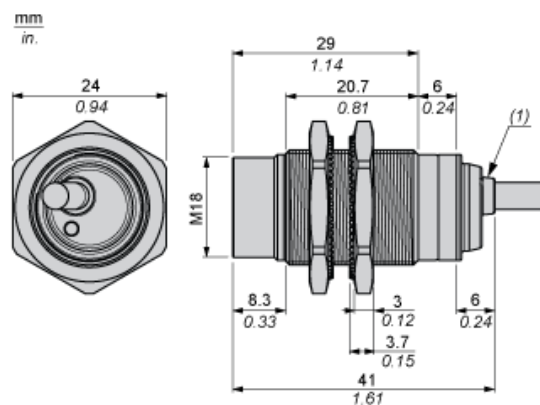
|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CSA<br>UL<br>E2           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

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 1550 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available                                                                             |
| Product end of life instructions | Available                                                                             |

## Dimensions

### Pre-cabled

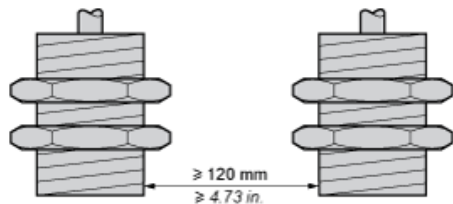


(1) Yellow LED (Output state indication)

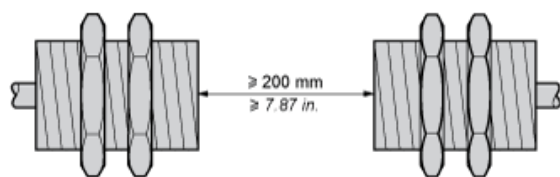
## Mounting and Clearance

### Minimum Mounting Distances

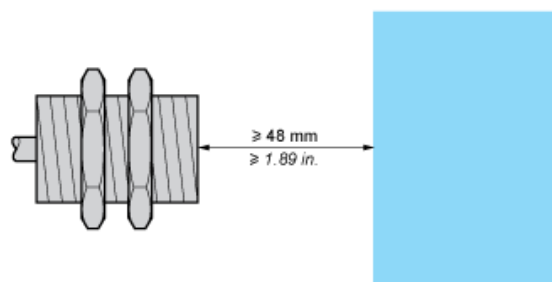
#### Side by Side



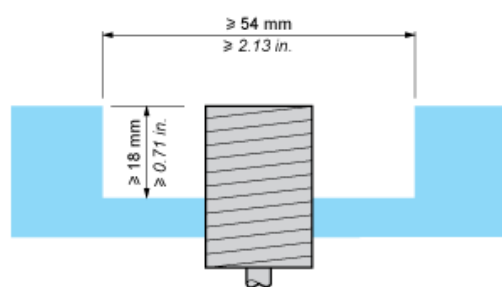
#### Face to Face



#### Facing a Metal Object



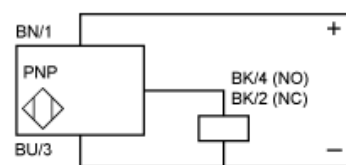
#### Mounted in a Metal Support



## Connection and Schema

### Wiring Schemes

PNP 3-wire

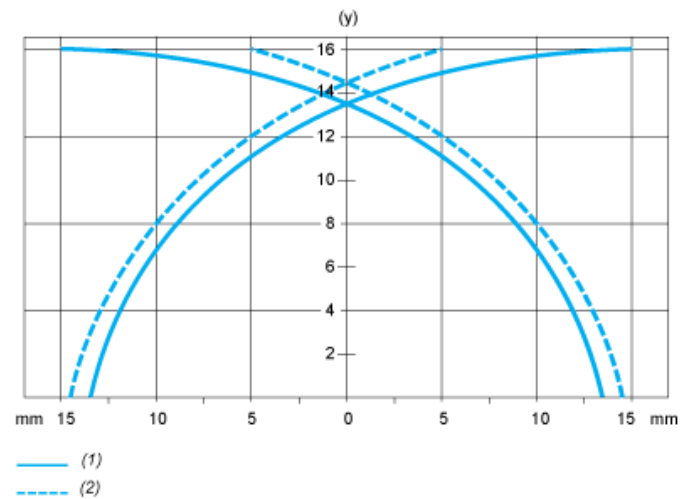


BN : Brown  
BK : Black  
BU : Blue

## 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)