# XS112B3PBM12

inductive sensor XS1 M12 - L50mm - brass - Sn4mm - 12..24VDC - M12





### Main

| Range of product                   | OsiSense XS  |
|------------------------------------|--|
| Series name                        | General purpose  |
| Sensor type                        | Inductive proximity sensor                                   |
| Device application                 | Mobile equipment   |
| Sensor name                        | XS1  |
| Sensor design                      | Cylindrical M12  |
| Size                               | 50 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      | 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          | 1224 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 IEC 60529 |
|                                    |  |

#### Complementary

| Complementary          |                              |  |
|------------------------|------------------------------|--|
| Thread type            | M12 x 1                      |  |
| Detection face         | Frontal                      |  |
| Front material         | PPS                          |  |
| Enclosure material     | Nickel plated brass          |  |
| Operating zone         | 03.2 mm                      |  |
| Differential travel    | 115% of Sr                   |  |
| Status LED             | Output state: 1 LED (yellow) |  |
| Supply voltage limits  | 1036 V DC                    |  |
| Switching frequency    | <= 2500 Hz                   |  |
| Maximum voltage drop   | <2 V (closed)                |  |
| Current consumption    | <= 10 mA no-load             |  |
| Maximum delay first up | 10 ms                        |  |
| Maximum delay response | 0.2 ms                       |  |
| Maximum delay recovery | 0.2 ms                       |  |
| Marking                | CE                           |  |
| Threaded length        | 30 mm                        |  |
| Length                 | 50 mm                        |  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not interested for a set of for determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

### **Environment**

| Product certifications                | CSA<br>UL<br>E2  |
|---------------------------------------|--|
| Ambient air temperature for operation | -2570 °C   |
| Ambient air temperature for storage   | -4085 °C   |
| Vibration resistance                  | 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 50 gn for 11 ms conforming to IEC 60068-2-27                         |

# Packing Units

| Package 1 Weight | 0.039 kg |  |
|------------------|----------|--|
| Package 1 Height | 0.640 dm |  |
| Package 1 width  | 0.410 dm |  |
| Package 1 Length | 0.940 dm |  |

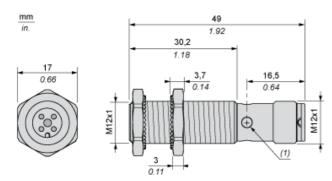
# Offer Sustainability

| Sustainable offer status   | Green Premium product   |
|----------------------------|---|
| REACh Regulation           | ☑ REACh Declaration   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS  Declaration |
| Mercury free               | Yes   |
| RoHS exemption information | ₽¥Yes   |
| Environmental Disclosure   | Product Environmental Profile   |
| Circularity Profile        | ☐ End of Life Information   |
|                            |   |

### Contractual warranty

| o o national manner of |           |  |
|------------------------|-----------|--|
| Warranty               | 18 months |  |

### **Dimensions**

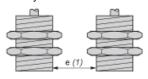


(1): LED

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### **Minimum Mounting Distances**

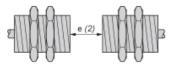
#### Side by side



e (1) 8 mm/0.31 in.

2

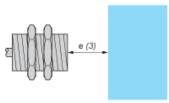
Face to face



e (2) 48 mm/1.89 in.

≥

Facing a metal object



e (3) 12 mm/0.47 in.

≥

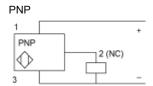
# Product data sheet Connections and Schema

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## Wiring Schemes

#### M12 connector





1: (+) 2: NC Output

3: (-) 4: Not connected