

# XS512BSCAM12

inductive sensor XS5 M12 - L50mm - brass -  
Sn2mm - 12..24VDC - M12



## 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                               | 50 mm                                                         |
| Body type                          | Fixed                                                         |
| Detector flush mounting acceptance | Flush mountable                                               |
| Material                           | Metal                                                         |
| Type of output signal              | Discrete                                                      |
| Wiring technique                   | 2-wire                                                        |
| [Sn] nominal sensing distance      | 2 mm                                                          |
| Discrete output function           | 1 NO                                                          |
| Output circuit type                | DC                                                            |
| Electrical connection              | 4 pins M12 male connector, pin assignment : 1-4               |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection                 |
| Switching capacity in mA           | 1.5...100 mA DC with overload and short-circuit protection    |
| IP degree of protection            | IP67 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                          |                              |
|--------------------------|------------------------------|
| Thread type              | M12 x 1                      |
| Detection face           | Frontal                      |
| Front material           | PPS                          |
| Enclosure material       | Nickel plated brass          |
| Operating zone           | 0...1.6 mm                   |
| Differential travel      | 1...15% of Sr                |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...36 V DC                 |
| Maximum residual current | 0.5 mA open state            |
| Switching frequency      | <= 4000 Hz                   |
| Maximum voltage drop     | <4 V (closed)                |
| Maximum delay first up   | 10 ms                        |
| Maximum delay response   | 0.2 ms                       |
| Maximum delay recovery   | 0.2 ms                       |
| Marking                  | CE                           |
| Threaded length          | 30 mm                        |
| Height                   | 12 mm                        |
| Length                   | 50 mm                        |
| Net weight               | 0.015 kg                     |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CSA<br>UL                                                               |
| 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             | 39 g     |
| Package 1 Height             | 4.1 cm   |
| Package 1 width              | 6.4 cm   |
| Package 1 Length             | 9.4 cm   |
| Unit Type of Package 2       | BAG      |
| Number of Units in Package 2 | 1        |
| Package 2 Weight             | 39 g     |
| Package 2 Height             | 1.5 cm   |
| Package 2 width              | 20 cm    |
| Package 2 Length             | 15 cm    |
| Unit Type of Package 3       | S02      |
| Number of Units in Package 3 | 44       |
| Package 3 Weight             | 2.171 kg |
| Package 3 Height             | 15 cm    |
| Package 3 width              | 30 cm    |
| Package 3 Length             | 40 cm    |

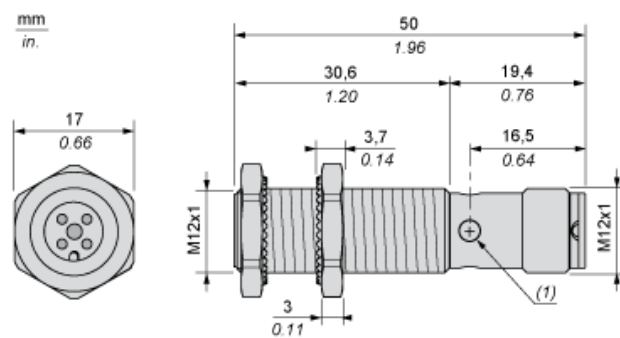
## Offer Sustainability

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)  <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

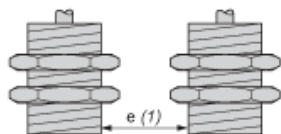


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### Minimum Mounting Distances

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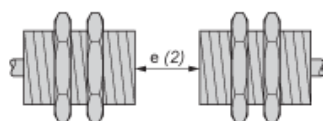
Side by side



e (1) 4 mm/0.16 in.

≥

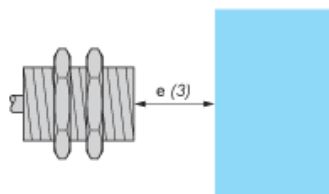
Face to face



e (2) 24 mm/0.94 in.

≥

Facing a metal object



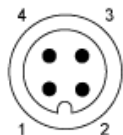
e (3) 6 mm/0.24 in.

≥

## Wiring Schemes

### 2-Wire Polarised

M12 connector



NO output



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Performance Curves

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Standard Steel Target : 12x12x1 mm

