

# XS512B1DBL10

inductive sensor XS5 M12 - L53mm - brass -  
Sn2mm - 12..48VDC - cable 10m



Product Life Status : **END OF STANDARD SERVICE**

TODAY  
FEB 21, 2021

End of Commercialization  
NOV 03, 2020

End of Standard Service  
JAN 29, 2021



## 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                               | 54 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 NC  |
| Output circuit type                | DC  |
| Electrical connection              | cable   |
| Cable length                       | 10 m  |
| [Us] rated supply voltage          | 12...48 V DC  |
| Switching capacity in mA           | 1.5...100 mA DC with overload and short-circuit protection                      |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

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## 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            |
| Cable composition   | 2 x 0.34 mm <sup>2</sup> |

|                          |                              |
|--------------------------|------------------------------|
| Wire insulation material | PvR                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...58 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          | 42 mm                        |
| Height                   | 12 mm                        |
| Length                   | 53 mm                        |
| Net weight               | 0.395 kg                     |






## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | CCC<br>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

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.275 kg |
| Package 1 Height | 1.480 dm |
| Package 1 width  | 0.800 dm |
| Package 1 Length | 0.800 dm |

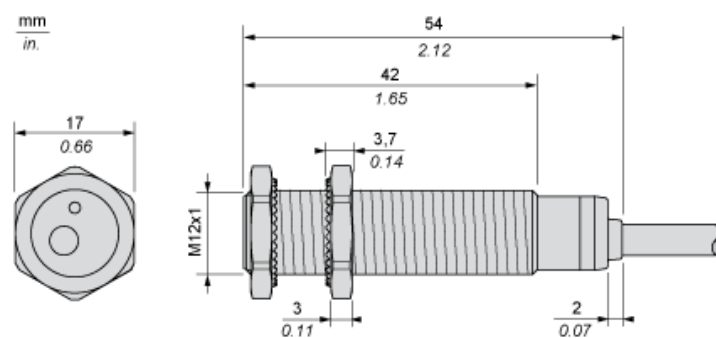
## Offer Sustainability

|                            |  |
|----------------------------|--|
| 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



## Minimum Mounting Distances

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.

≥

## Mounting



(1) Bending cable: 4 x external cable diameter

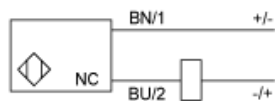
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## Wiring Schemes

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### 2-Wire Non-polarised

NC output



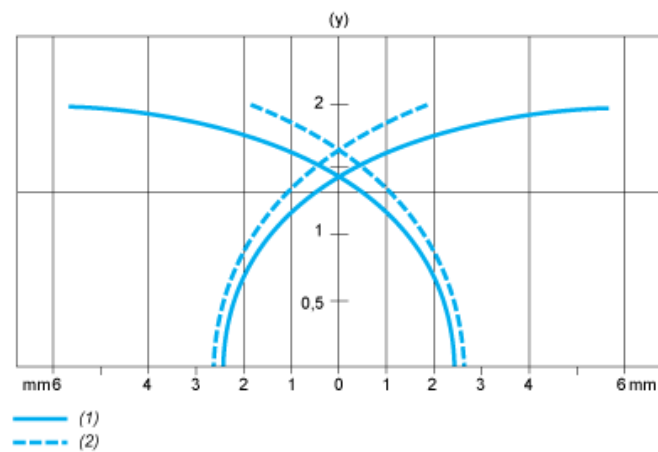
BU : Blue  
BN : Brown

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Performance Curves

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Standard Steel Target : 12x12x1 mm



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