

# XS508B1DBL10

inductive sensor XS5 M8 - L51mm - stainless -  
Sn1.5mm - 12..48VDC - cable 10m



## Main

|                                    |  |
|------------------------------------|--|
| Range of product                   | OsiSense XS  |
| Series name                        | General purpose  |
| Sensor type                        | Inductive proximity sensor                                 |
| Device application                 | -  |
| Sensor name                        | XS5  |
| Sensor design                      | Cylindrical M8   |
| Size                               | 51 mm  |
| Body type                          | Fixed  |
| Detector flush mounting acceptance | Flush mountable  |
| Material                           | Stainless steel  |
| Type of output signal              | Discrete   |
| Wiring technique                   | 2-wire   |
| [Sn] nominal sensing distance      | 1.5 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            | IP67 conforming to IEC 60529                               |

## Complementary

|                          |                              |
|--------------------------|------------------------------|
| Thread type              | M8 x 1                       |
| Detection face           | Frontal                      |
| Front material           | PPS                          |
| Enclosure material       | Stainless steel 303          |
| Operating zone           | 0...1.2 mm                   |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 2 x 0.11 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                   | 8 mm                         |
| Length                   | 51 mm                        |
| Net weight               | 0.355 kg                     |

## Environment

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

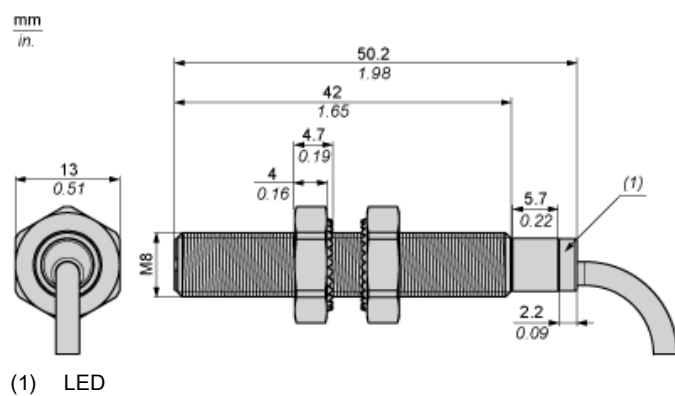
## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.235 kg |
| Package 1 Height | 1.470 dm |
| Package 1 width  | 0.450 dm |
| Package 1 Length | 0.820 dm |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



## Minimum Mounting Distances

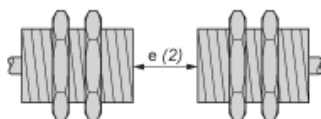
Side by side



e (1) 3 mm/0.12 in.

≥

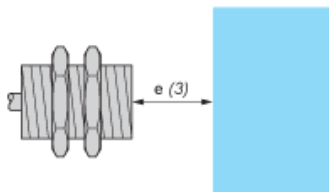
Face to face



e (2) 18 mm/0.71 in.

≥

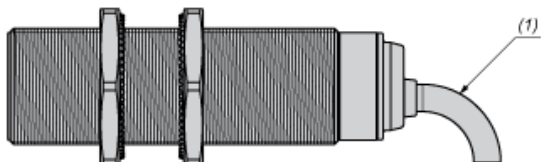
Facing a metal object



e (3) 4.5 mm/0.18 in.

≥

## Mounting



(1) Bending cable: 4 x external cable diameter

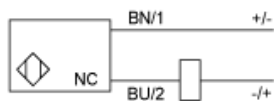
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## Wiring Schemes

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### 2-Wire Non-polarised

NC output



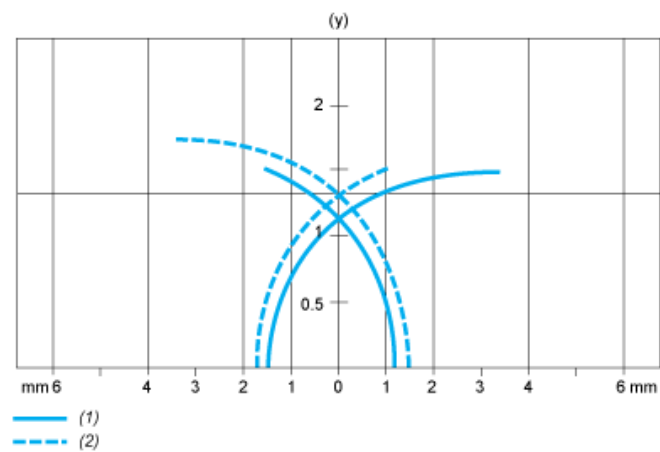
BU : Blue  
BN : Brown

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Performance Curves

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Standard Steel Target : 8x8x1 mm



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