

# XS1M18MB250L1

Inductive proximity sensors XS, inductive sensor XS1 M18, L60mm, brass, Sn5mm, 24...240VAC/DC, cable 5 m



## Main

|                                    |                                                                                                                      |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS                                                                         |
| Series name                        | General purpose                                                                                                      |
| Sensor type                        | Inductive proximity sensor                                                                                           |
| Wiring configuration               | 2-wire                                                                                                               |
| Output circuit type                | AC/DC                                                                                                                |
| Protection type                    | Short-circuit protection multi voltage                                                                               |
| Device application                 | 2-wire DC short-circuit protection                                                                                   |
| Sensor name                        | XS1                                                                                                                  |
| Sensor design                      | Cylindrical M18                                                                                                      |
| Size                               | 60 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      | 5 mm                                                                                                                 |
| Discrete output function           | 1 NC                                                                                                                 |
| Electrical connection              | Cable                                                                                                                |
| Cable length                       | 5 m                                                                                                                  |
| [Us] rated supply voltage          | 24...210 V DC<br>24...240 V AC 50/60 Hz                                                                              |
| Switching capacity in mA           | 5...300 mA AC with overload and short-circuit protection<br>5...200 mA DC with overload and short-circuit protection |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529                                                                       |

## Complementary

|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| Thread type              | M18 x 1                                                  |
| Detection face           | Frontal                                                  |
| Front material           | PPS                                                      |
| Enclosure material       | Nickel plated brass                                      |
| Operating zone           | 0...4 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)<br>Supply on: 1 LED (green) |
| Maximum residual current | 1.5 mA open state                                        |
| Switching frequency      | <= 2000 Hz DC<br><= 25 Hz AC                             |
| Maximum voltage drop     | <5.5 V (closed state)                                    |
| Maximum delay first up   | 70 ms                                                    |
| Maximum delay response   | 2 ms                                                     |
| Maximum delay recovery   | 4 ms                                                     |

|                 |                    |
|-----------------|--------------------|
| Marking         | CE                 |
| Threaded length | 51 mm              |
| Length          | 60 mm              |
| Net weight      | 0.24 Kg<br>0.12 kg |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CSA<br>UL<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 60068-2-7                             |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.269 kg |
| Package 1 Height | 0.800 dm |
| Package 1 width  | 0.800 dm |
| Package 1 Length | 1.480 dm |

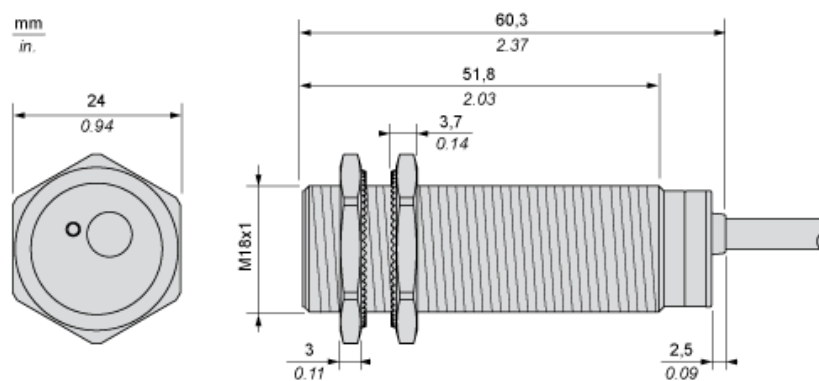
## Offer Sustainability

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

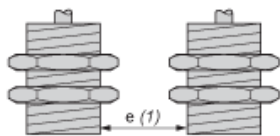
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



## Minimum Mounting Distances

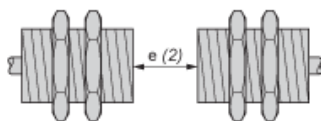
Side by side



e (1) 10 mm/0.39 in.

≥

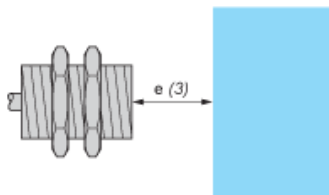
Face to face



e (2) 60 mm/2.36 in.

≥

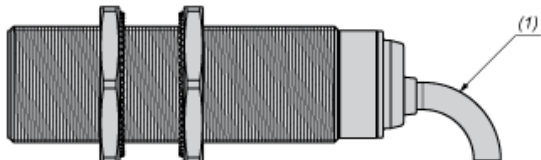
Facing a metal object



e (3) 15 mm/0.60 in

≥

## Mounting



(1) Bending cable: 4 x external cable diameter

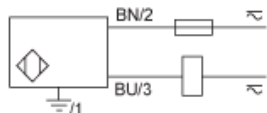
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## Wiring Schemes

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### 2-Wire AC or DC

NC output



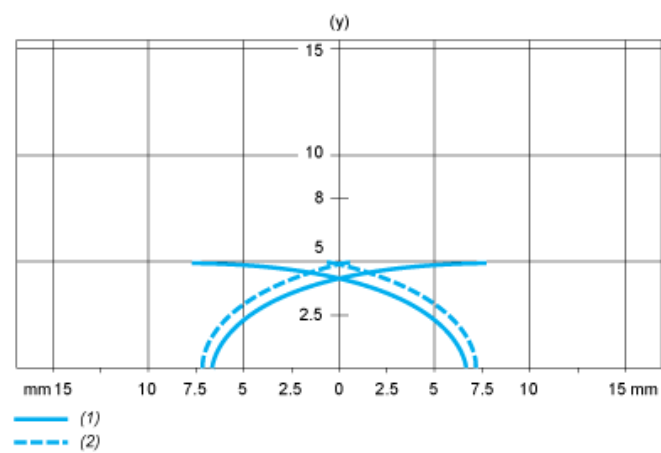
BU : Blue  
BN : Brown

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Performance Curves

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Standard Steel Target : 18x18x1 mm



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