# XS1M18MB250

inductive sensor XS1 M18 - L60mm - brass - Sn5mm - 24..240VAC/DC - cable 2m

Green Premium™ Product

## Main

| | |
|---|---|
| Range of product | OsiSense 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 | 2 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 mm² |
| 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 | 0.12 kg |

## Environment

| | |
|---|---|
| Product certifications | CCC |
| | CSA |
| | 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 60068-2-7 |

## Packing Units

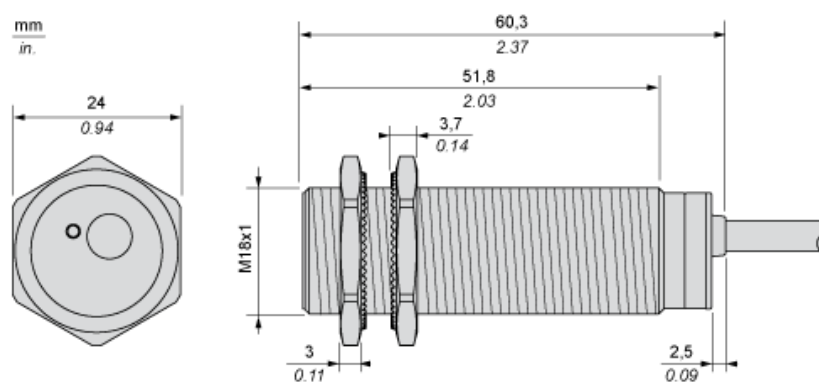| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 106 g |
| Package 1 Height | 13.1 cm |
| Package 1 width | 9.4 cm |
| Package 1 Length | 4.1 cm |
| Unit Type of Package 2 | BAG |
| Number of Units in Package 2 | 1 |
| Package 2 Weight | 123 g |
| Package 2 Height | 3 cm |
| Package 2 width | 20 cm |
| Package 2 Length | 15 cm |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 44 |
| Package 3 Weight | 5.828 kg |
| Package 3 Height | 30 cm |
| Package 3 width | 30 cm |
| Package 3 Length | 40 cm |

## 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

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

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## 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


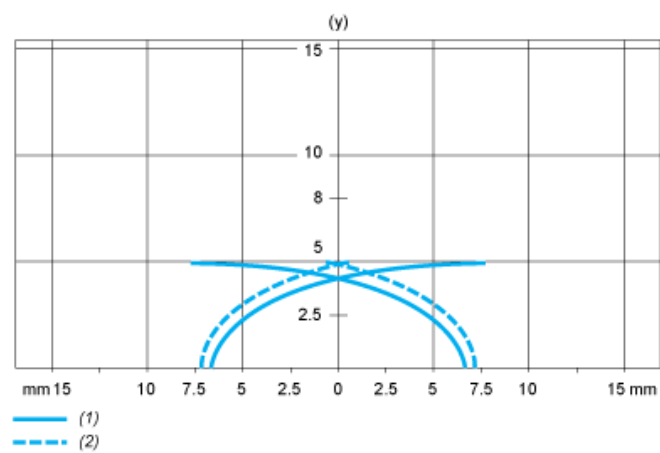
(1)    Bending cable: 4 x external cable diameter

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## Wiring Schemes

5

### 2-Wire AC or DC

NC output



BU : Blue
BN : Brown

# XS1M18MB250

## Performance Curves

### Standard Steel Target : 18x18x1 mm



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

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