# Product datasheet

Specifications

Green Premium™

## inductive sensor XS4 M12 - L52mm - PPS - Sn4mm - 24..240VAC/DC - cable 2m

**Local distributor code: 21154430**    XS4P12MB230

**EAN Code : 3389110919172**

## Main

| | |
|---|---|
| **Range of product** | Telemecanique Inductive proximity sensors XS |
| **Series name** | General purpose |
| **Sensor type** | Inductive proximity sensor |
| **Sensor name** | XS4 |
| **Sensor design** | Cylindrical M12 |
| **Size** | 52 mm |
| **Body type** | Fixed |
| **Detector flush mounting acceptance** | Non flush mountable |
| **Material** | Plastic |
| **Type of output signal** | Discrete |
| **Wiring technique** | 2-wire |
| **[Sn] nominal sensing distance** | 4 mm |
| **Discrete output function** | 1 NC |
| **Output circuit type** | AC/DC |
| **Electrical connection** | Cable |
| **Cable length** | 2 m |
| **[Us] rated supply voltage** | 24...240 V AC/DC 50/60 Hz |
| **Switching capacity in mA** | 5...200 mA AC/DC |
| **IP degree of protection** | IP68 double insulation conforming to IEC 60529 |

## Complementary

| | |
|---|---|
| **Thread type** | M12 x 1 |
| **Detection face** | Frontal |
| **Front material** | PPS |
| **Enclosure material** | PPS |
| **Operating zone** | 0…3.2 mm |
| **Differential travel** | 1...15% of Sr |
| **Cable composition** | 2 x 0.34 mm² |

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| | |
|---|---|
| Wire insulation material | PVC |
| Status LED | Output state: 1 LED (yellow) |
| Supply voltage limits | 20…264 V AC/DC |
| Maximum residual current | 0.6 mA open state |
| Switching frequency | <= 25 Hz AC<br><= 3000 Hz DC |
| Maximum voltage drop | <5.5 V (closed) |
| Maximum delay first up | 40 ms |
| Maximum delay response | 0.2 ms |
| Maximum delay recovery | 0.2 ms |
| Marking | CE |
| Threaded length | 42 mm |
| Height | 12 mm |
| Length | 52 mm |
| Net weight | 0.065 kg |

## Environment

| | |
|---|---|
| Product certifications | UL<br>CSA<br>CCC<br>Ecolab |
| 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 Height | 2.4 cm |
| Package 1 Width | 14.6 cm |
| Package 1 Length | 15.7 cm |
| Package 1 Weight | 60.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 22 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 1.682 kg |

## 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)<br>EU RoHS Declaration |

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| **Mercury free** | Yes |
| **RoHS exemption information** | Yes |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |

## Contractual warranty

| **Warranty** | 18 months |

# XS4P12MB230

**Dimensions**

## XS4P12MB230
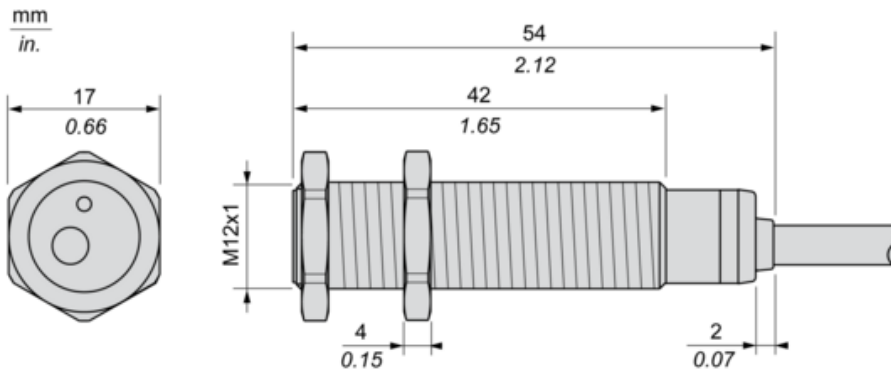
### Minimum Mounting Distances

Side by side

e (1) ≥ 16 mm/0.63 in.

Face to face

e (2) ≥ 48 mm/1.89 in.

Facing a metal object

e (3) ≥ 12 mm/0.47 in.

Mounted in a metal support
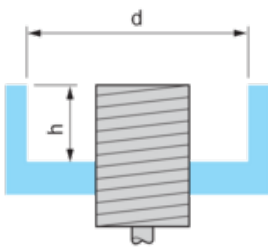
d ≥ 36 mm/1.42 in.

h ≥ 8 mm/0.31 in.
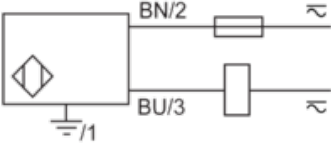
**Mounting**



**(1)** Bending cable: 4 x external cable diameter

## Wiring Schemes

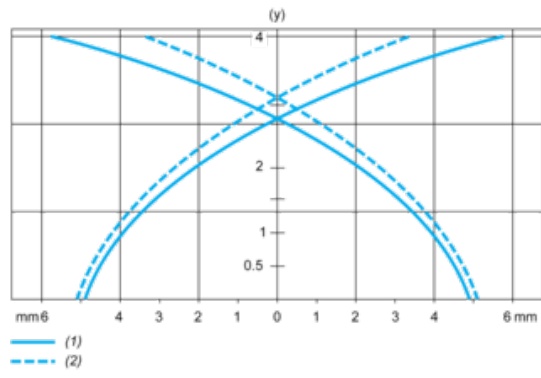### 2-Wire AC or DC

NC output



**BU** : Blue
**BN** : Brown

## Performance Curves

**Standard Steel Target : 12x12x1 mm**



**(1)** Pick-up points

**(2)** Drop-out points (object approaching from the side)

**(y)** Sensing distance in mm

**Recommended replacement(s)**

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