# Product datasheet

Specifications

**Green Premium™**

## inductive sensor XS5 M30 - L73mm - brass - Sn10mm - 24..240VAC/DC - 1/2"

XS530B1MAU20

## Main

| | |
|---|---|
| **Range of product** | Telemecanique Inductive proximity sensors XS |
| **Series name** | General purpose |
| **Sensor type** | Inductive proximity sensor |
| **Device application** | - |
| **Sensor name** | XS5 |
| **Sensor design** | Cylindrical M30 |
| **Size** | 73 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** | 10 mm |
| **Discrete output function** | 1 NO |
| **Output circuit type** | AC/DC |
| **Electrical connection** | Male connector 1/2"20 UNF, 3 pins |
| **[Us] rated supply voltage** | 24...240 V AC/DC with reverse polarity protection |
| **Switching capacity in mA** | 5...200 mA DC<br>5...300 mA AC |
| **IP degree of protection** | IP67 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

| | |
|---|---|
| **Thread type** | M30 x 1.5 |
| **Detection face** | Frontal |
| **Front material** | PPS |
| **Enclosure material** | Nickel plated brass |
| **Operating zone** | 0…8 mm |
| **Differential travel** | 1...15% of Sr |
| **Status LED** | Output state: 1 LED (yellow) |

| | |
|---|---|
| **Supply voltage limits** | 20…264 V AC/DC |
| **Maximum residual current** | 0.8 mA open state |
| **Switching frequency** | <= 25 Hz AC<br><= 500 Hz DC |
| **Maximum voltage drop** | <5.5 V (closed) |
| **Maximum delay first up** | 25 ms |
| **Maximum delay response** | 0.5 ms |
| **Maximum delay recovery** | 2 ms |
| **Marking** | CE |
| **Threaded length** | 52 mm |
| **Length** | 73 mm |
| **Net weight** | 0.165 kg |

## Environment

| | |
|---|---|
| **Product certifications** | 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

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 4.1 cm |
| **Package 1 Width** | 6.8 cm |
| **Package 1 Length** | 9.8 cm |
| **Package 1 Weight** | 164.0 g |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 44 |
| **Package 2 Height** | 15 cm |
| **Package 2 Width** | 30 cm |
| **Package 2 Length** | 40 cm |
| **Package 2 Weight** | 7.647 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 |
| **Mercury free** | Yes |
| **RoHS exemption information** | Yes |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |

## Contractual warranty

**Warranty**                          18 months

## Dimensions
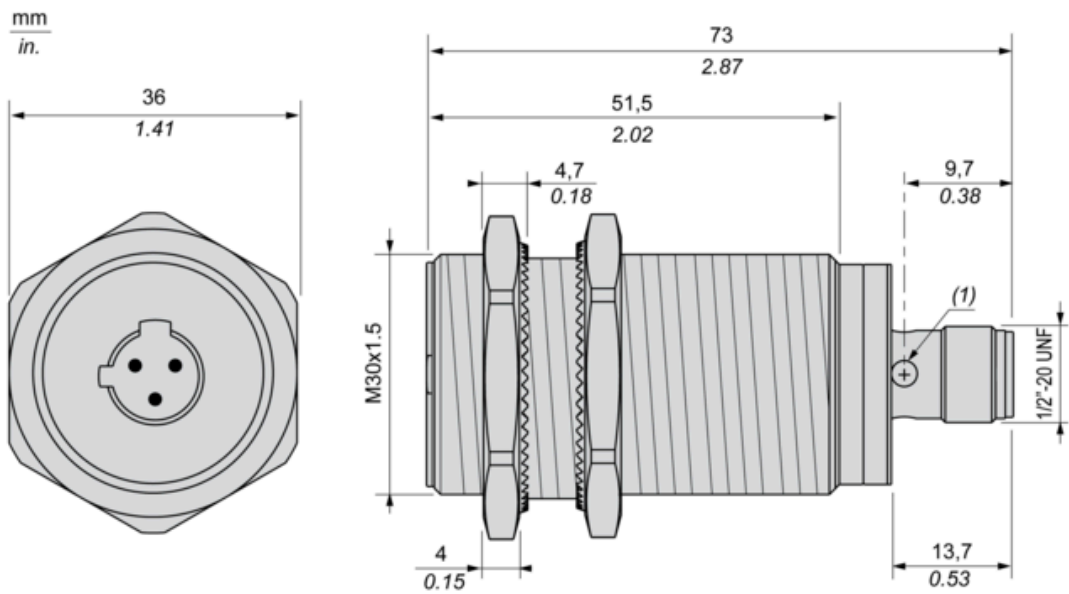

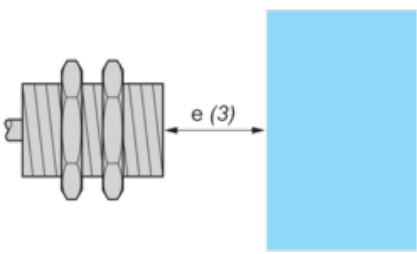
**(1)** : LED

## Minimum Mounting Distances

Side by side

e (1) ≥ 30 mm/1.18 in.

Face to face
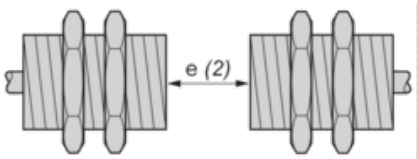
e (2) ≥ 180 mm/7.09 in.

Facing a metal object

e (3) ≥ 45 mm/1.77 in.

### Wiring Schemes

1/2"-20UNF



**1** : Grounding

**2** : AC

**3** : AC

NO output
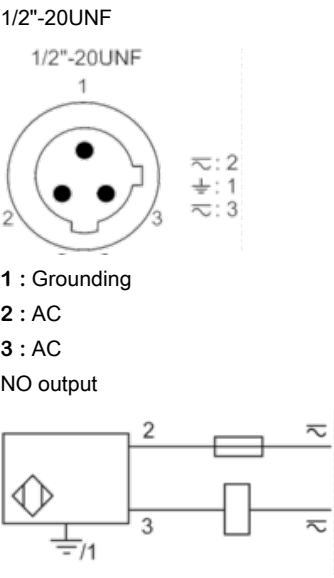
## Performance Curves

**Standard Steel Target : 30x30x1 mm**
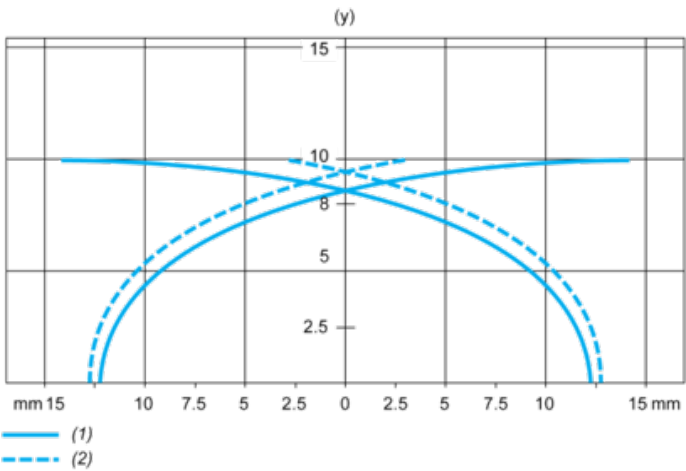


- **(1)** Pick-up points
- **(2)** Drop-out points (object approaching from the side)
- **(y)** Sensing distance in mm

## Recommended replacement(s)