

# Product datasheet

Specifications



inductive sensor XS5 M30 - L55mm  
- brass - Sn10mm - 12..24VDC -  
M12

Local distributor code: 387027719    XS530B1PAM12

## 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                               | 55 mm                                                         |
| Body type                          | Fixed                                                         |
| Detector flush mounting acceptance | Flush mountable                                               |
| Material                           | Metal                                                         |
| Type of output signal              | Discrete                                                      |
| Wiring technique                   | 3-wire                                                        |
| [Sn] nominal sensing distance      | 10 mm                                                         |
| Discrete output function           | 1 NO                                                          |
| Output circuit type                | DC                                                            |
| Discrete output type               | PNP                                                           |
| Electrical connection              | Male connector M12, 4 pins                                    |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection                 |
| Switching capacity in mA           | <= 200 mA DC with overload and short-circuit protection       |
| 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  | 10...36 V DC                 |
| Switching frequency    | <= 1000 Hz                   |
| Maximum voltage drop   | <2 V (closed)                |
| Current consumption    | <= 10 mA no-load             |
| Maximum delay first up | 10 ms                        |
| Maximum delay response | 0.3 ms                       |
| Maximum delay recovery | 0.7 ms                       |
| Marking                | CE                           |
| Threaded length        | 32 mm                        |
| Length                 | 55 mm                        |
| Net weight             | 0.145 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 Weight             | 130.0 g  |
| Package 1 Height             | 4.2 cm   |
| Package 1 width              | 9.7 cm   |
| Package 1 Length             | 6.5 cm   |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 44       |
| Package 2 Weight             | 6.175 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Unit Type of Package 3       | PAL      |
| Number of Units in Package 3 | 704      |
| Package 3 Weight             | 91.52 kg |
| Package 3 Height             | 60 cm    |
| Package 3 width              | 80 cm    |
| Package 3 Length             | 704 cm   |

## Offer Sustainability

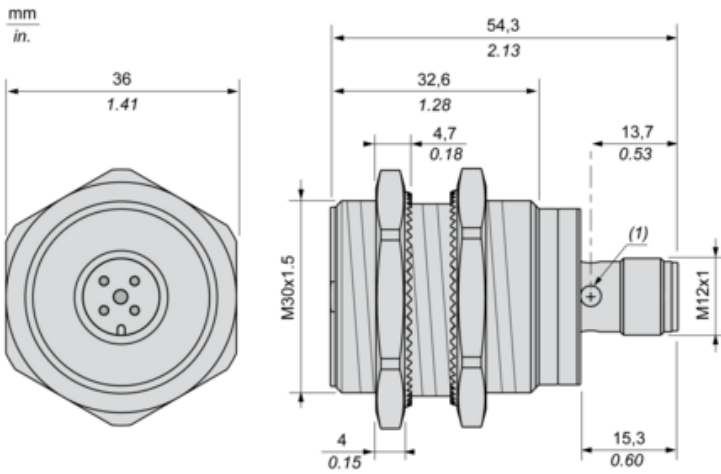
|                          |                       |
|--------------------------|-----------------------|
| Sustainable offer status | Green Premium product |
|--------------------------|-----------------------|

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                 |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><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 |
|----------|-----------|

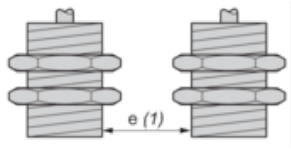
Dimensions



(1) : LED

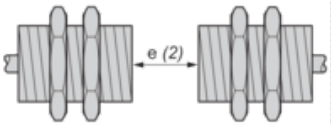
Minimum Mounting Distances

Side by side



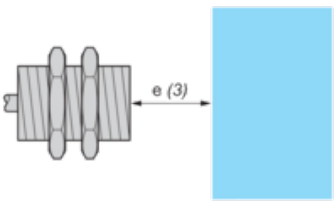
$e\ (1) \geq 20\text{ mm}/0.79\text{ in}$

Face to face



$e\ (2) \geq 120\text{ mm}/4.72\text{ in}$

Facing a metal object



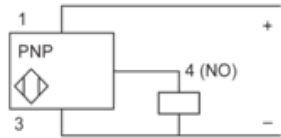
$e\ (3) \geq 30\text{ mm}/1.18\text{ in.}$

Wiring Schemes

M12 connector



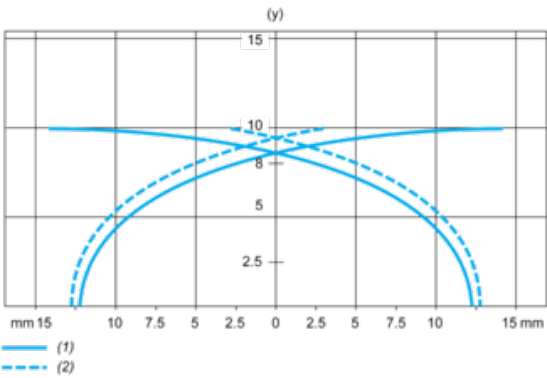
PNP



- 1 : (+)
- 2 : Not connected
- 3 : (-)
- 4 : 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