

# Product datasheet

Specifications



Inductive proximity sensors XS,  
inductive sensor XS6 M30, L74mm,  
brass, Sn22mm, 12...48 VDC, M12

XS630B4PAM12

## Main

|                                    |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS                  |
| Series name                        | General purpose                                               |
| Sensor type                        | Inductive proximity sensor                                    |
| Device application                 | Mobile equipment                                              |
| Sensor name                        | XS6                                                           |
| Sensor design                      | Cylindrical M30                                               |
| Size                               | 74 mm                                                         |
| Body type                          | Fixed                                                         |
| Detector flush mounting acceptance | Non flush mountable                                           |
| Material                           | Metal                                                         |
| Type of output signal              | Discrete                                                      |
| Wiring technique                   | 3-wire                                                        |
| [Sn] nominal sensing distance      | 22 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...48 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 |
| Sensing range      | > 15...40 mm        |
| Operating zone     | 0...17.6 mm         |

|                        |                              |
|------------------------|------------------------------|
| Differential travel    | 1...15% of Sr                |
| Status LED             | Output state: 1 LED (yellow) |
| Supply voltage limits  | 10...58 V DC                 |
| Switching frequency    | <= 500 Hz DC                 |
| Maximum voltage drop   | <2 V (closed)                |
| Current consumption    | <= 10 mA no-load             |
| Maximum delay first up | 10 ms                        |
| Maximum delay response | 0.6 ms                       |
| Maximum delay recovery | 1.4 ms                       |
| Marking                | CE                           |
| Threaded length        | 41 mm                        |
| Length                 | 74 mm                        |
| Net weight             | 0.145 kg                     |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | UL<br>CSA<br>E2                                                         |
| 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

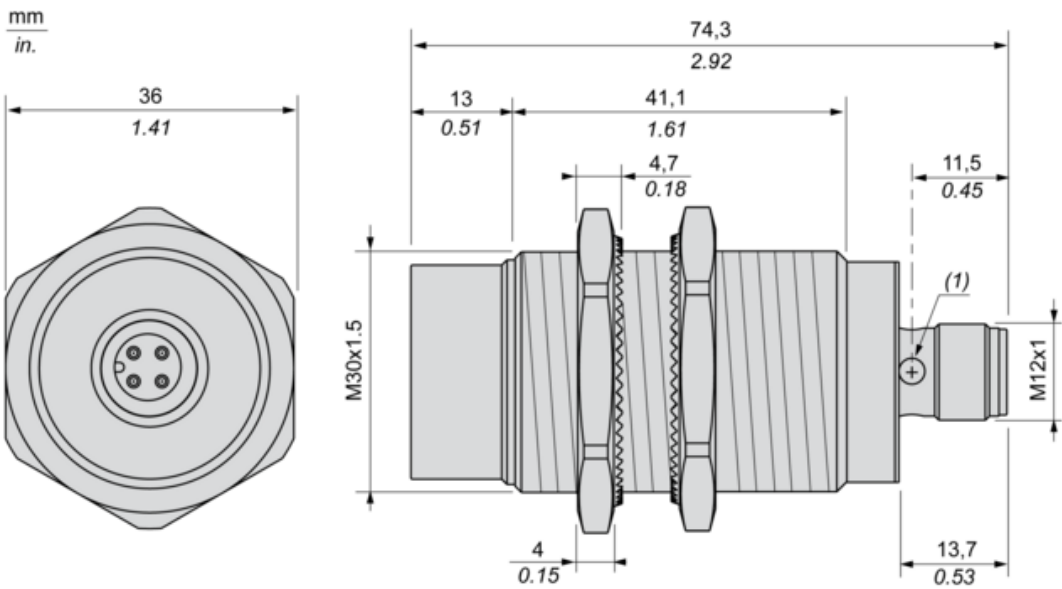
|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 4.0 cm   |
| Package 1 Width              | 6.5 cm   |
| Package 1 Length             | 9.5 cm   |
| Package 1 Weight             | 141.0 g  |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 22       |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 15 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 3.289 kg |

## 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>       |
| <b>Contractual warranty</b> |                                               |
| Warranty                    | 18 months                                     |

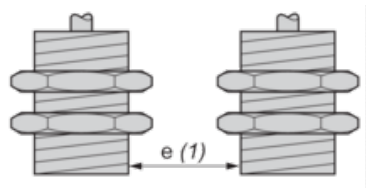
Dimensions



(1) : LED

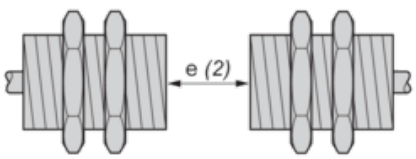
Minimum Mounting Distances in mm

Side by side



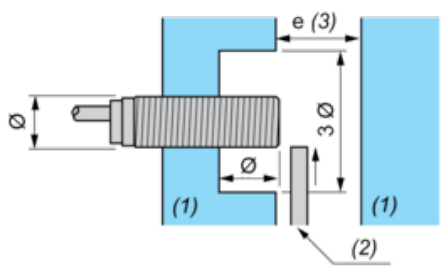
$e\ (1) \geq 120\text{ mm}/4.72\text{ in.}$

Face to face



$e\ (2) \geq 264\text{ mm}/10.39\text{ in.}$

Facing a metal object



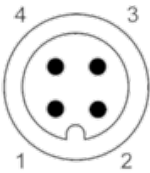
$e\ (3) \geq 66\text{ mm}/2.60\text{ in.}$

(4) Metal

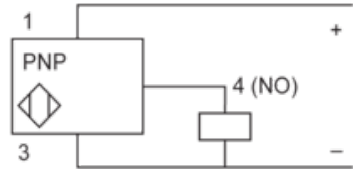
(5) Object to be detected

Wiring Schemes

M12 connector



PNP



- 1 : (+)
- 2 : Not connected
- 3 : (-)
- 4 : NO Output

Recommended replacement(s)