

# Product data sheet

Specifications



Inductive proximity sensors XS,  
inductive sensor XS4 M30, L62mm,  
PPS, Sn15mm, 12...48 VDC, term.  
0.15 m

XS4P30PA370L01B

## Main

|                                    |   |
|------------------------------------|---|
| Range of product                   | Telemecanique Inductive proximity sensors XS            |
| Series name                        | General purpose   |
| Sensor type                        | Inductive proximity sensor                              |
| Sensor name                        | XS4   |
| Sensor design                      | Cylindrical M30   |
| Size                               | 62 mm   |
| Body type                          | Fixed   |
| Detector flush mounting acceptance | Non flush mountable                                     |
| Material                           | Plastic   |
| Type of output signal              | Discrete  |
| Wiring technique                   | 3-wire  |
| [Sn] nominal sensing distance      | 15 mm   |
| Discrete output function           | 1 NO  |
| Output circuit type                | DC  |
| Discrete output type               | PNP   |
| Electrical connection              | Remote male connector screw-clamp terminals             |
| Cable length                       | 0.15 m  |
| [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            | IP68 double insulation conforming to IEC 60529          |

## Complementary

|                     |               |
|---------------------|---------------|
| Thread type         | M30 x 1.5     |
| Detection face      | Frontal       |
| Front material      | PPS           |
| Enclosure material  | PPS           |
| Operating zone      | 0...12 mm     |
| Differential travel | 1...15% of Sr |

|                          |                              |
|--------------------------|------------------------------|
| Cable composition        | 3 x 0.34 mm <sup>2</sup>     |
| Wire insulation material | PvR                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...58 V DC                 |
| Switching frequency      | <= 1000 Hz                   |
| Maximum voltage drop     | <2 V (closed)                |
| Current consumption      | 0...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          | 52 mm                        |
| Height                   | 30 mm                        |
| Length                   | 62 mm                        |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | UL<br>CCC<br>CSA  |
| 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             | 132.0 g  |
| Package 1 Height             | 4.2 cm   |
| Package 1 width              | 9.7 cm   |
| Package 1 Length             | 13.2 cm  |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 10       |
| Package 2 Weight             | 1.516 kg |
| Package 2 Height             | 15.0 cm  |
| Package 2 width              | 15.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 3 Height             | 15 cm    |

## Offer Sustainability

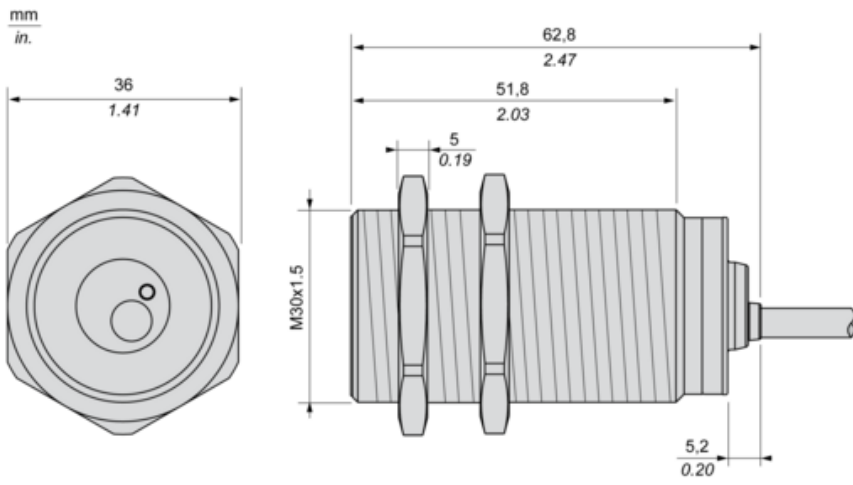
|                          |   |
|--------------------------|---|
| Sustainable offer status | Green Premium product   |
| REACH Regulation         | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive        | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration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

|                                   |   |
|-----------------------------------|---|
| <b>Mercury free</b>               | Yes   |
| <b>RoHS exemption information</b> | <a href="#">Yes</a>   |
| <b>Environmental Disclosure</b>   | <a href="#">Product Environmental Profile</a>   |
| <b>Circularity Profile</b>        | <a href="#">End of Life Information</a>   |
| <b>California proposition 65</b>  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

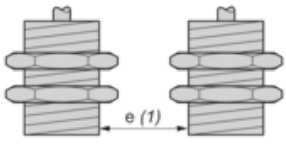
Dimensions



Minimum Mounting Distances

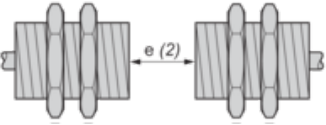
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Side by side



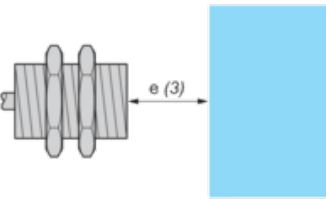
$e (1) \geq 60 \text{ mm}/2.36 \text{ in.}$

Face to face



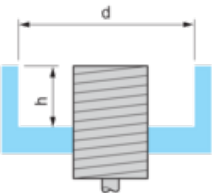
$e (2) \geq 180 \text{ mm}/7.09 \text{ in.}$

Facing a metal object



$e (3) \geq 45 \text{ mm}/1.77 \text{ in.}$

Mounted in a metal support



$d \geq 90 \text{ mm}/3.54 \text{ in.}$

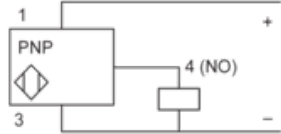
$h \geq 30 \text{ mm}/1.18 \text{ in.}$

**Wiring Schemes**

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**Screw Terminal**

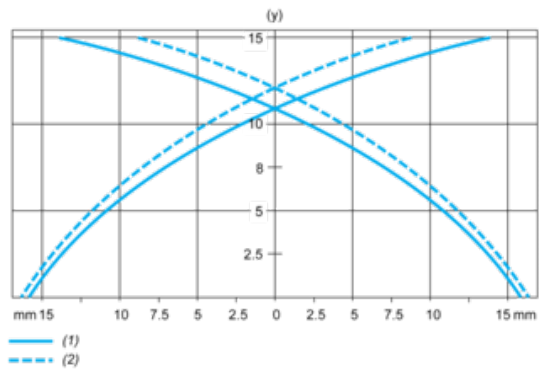
The terminal numbering differs according to the version (2-wire DC, 3-wire DC, 2-wire AC).



Performance Curves

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Standard Steel Target : 45x45x1 mm



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