

# XS4P18PA340D

Inductive proximity sensors XS, inductive sensor XS4 M18, L48mm, PPS, Sn8mm, 12...24 VDC, M12



## Main

|                                    |                                                         |
|------------------------------------|---------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS            |
| Series name                        | General purpose                                         |
| Sensor type                        | Inductive proximity sensor                              |
| Sensor name                        | XS4                                                     |
| Sensor design                      | Cylindrical M18                                         |
| Size                               | 48 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      | 8 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                            |

## Complementary

|                        |                              |
|------------------------|------------------------------|
| Thread type            | M18 x 1                      |
| Detection face         | Frontal                      |
| Front material         | PPS                          |
| Enclosure material     | PPS                          |
| Operating zone         | 0...6.4 mm                   |
| Differential travel    | 1...15% of Sr                |
| Status LED             | Output state: 1 LED (yellow) |
| Supply voltage limits  | 10...36 V DC                 |
| Switching frequency    | <= 2000 Hz                   |
| Maximum voltage drop   | <2 V (closed)                |
| Current consumption    | <= 10 mA no-load             |
| Maximum delay first up | 10 ms                        |
| Maximum delay response | 0.15 ms                      |
| Maximum delay recovery | 0.35 ms                      |
| Marking                | CE                           |
| Threaded length        | 29 mm                        |
| Height                 | 18 mm                        |
| Length                 | 48 mm                        |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | UL<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 Height             | 4.1 cm   |
| Package 1 Width              | 9.5 cm   |
| Package 1 Length             | 6.5 cm   |
| Package 1 Weight             | 28 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             | 1.543 kg |

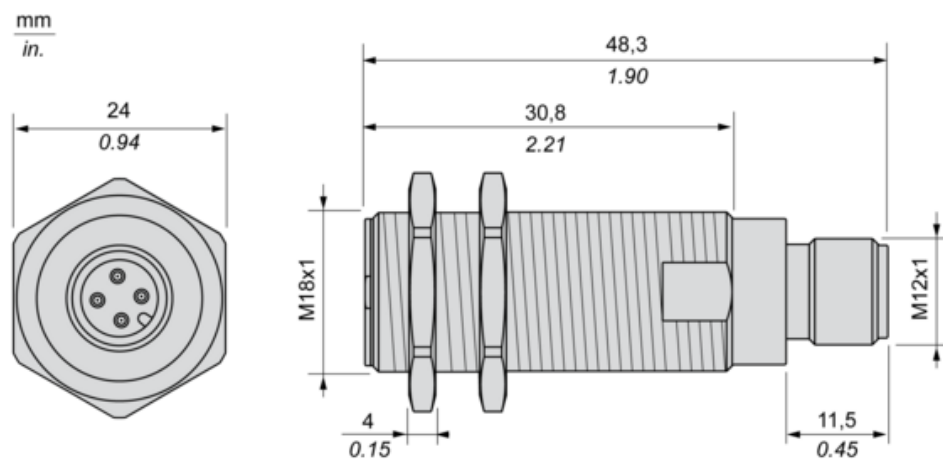
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) <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>                                                                                                                                                                                                                                                      |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Diisodecyl 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

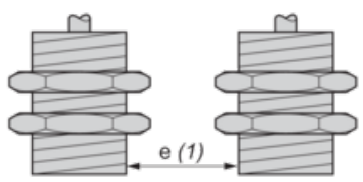
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



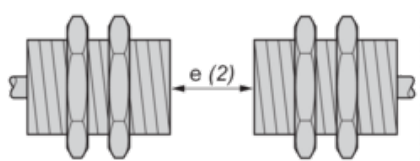
## Minimum Mounting Distances

Side by side



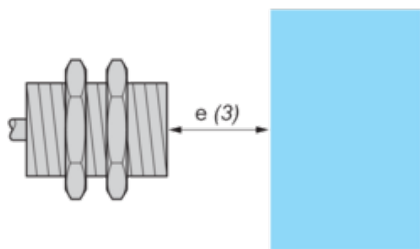
$e (1) \geq 32 \text{ mm}/1.26 \text{ in.}$

Face to face



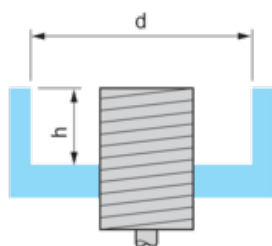
$e (2) \geq 96 \text{ mm}/3.78 \text{ in.}$

Facing a metal object



$e (3) \geq 24 \text{ mm}/0.94 \text{ in.}$

Mounted in a metal support

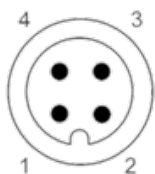


$d \geq 56 \text{ mm}/2.20 \text{ in.}$

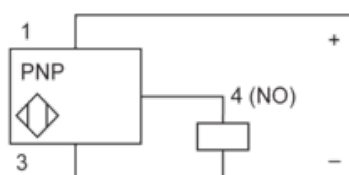
$h \geq 16 \text{ mm}/0.63 \text{ in.}$

## Wiring Schemes

M12 connector



PNP

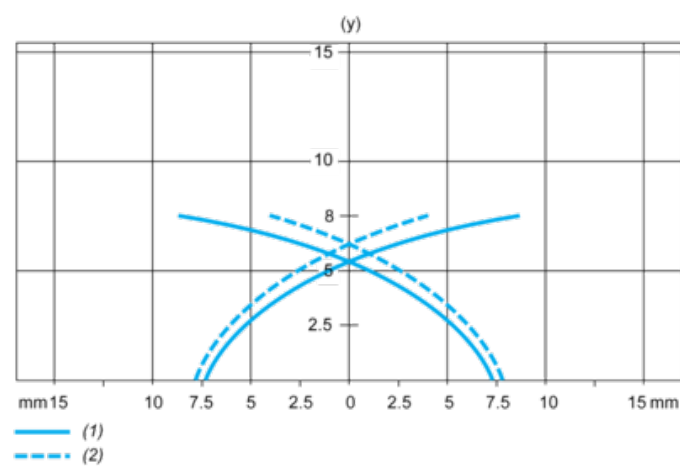


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Performance Curves

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Standard Steel Target : 24x24x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm