

# Product data sheet

# XS4P12NA340

Inductive sensor, XS4, M12, PPS, Sn 4 mm, NPN, NO, cable 2 m, L35 mm, 12...24 VDC

## Main

| | |
|---|---|
| Range of product | Telemecanique Inductive proximity sensors XS |
| Series name | General purpose |
| Sensor name | XS4 |
| Sensor type | Inductive proximity sensor |
| Sensor design | Cylindrical M12 |
| ETIM classification | ETIM 9 - EC002714 - Inductive proximity switch |
| Body type | Fixed |
| Material | Plastic |
| Front material | PPS |
| Enclosure material | PPS |
| [Sn] nominal sensing distance | 4 mm |
| Wiring technique | 3-wire |
| Detector flush mounting acceptance | Non flush mountable |
| Delay response | 0.1 ms |
| Thread type | M12 x 1 |
| Product certifications | CSA<br>Ecolab<br>UL |
| Marking | CE |
| Indivisible sale quantity | 1 |

## Complementary

| | |
|---|---|
| Sensing range | > 2.5...4 mm |
| Electrical connection | Cable |
| Cable length | 2 m |
| Cable composition | 3 x 0.34 mm² |
| Wire insulation material | PVC |
| Supply voltage limits | 10-36 V DC |
| [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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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| | |
|---|---|
| Voltage drop | <2 V (closed) |
| Current consumption | <= 10 mA no-load |
| Status LED | Output state: 1 LED (yellow) |
| Output circuit type | DC |
| Type of output signal | Discrete |
| Detection face | Frontal |
| Discrete output type | NPN |
| Discrete output function | 1 NO |
| Switching frequency | <= 5000 Hz |
| Differential travel | 1...15 % of Sr |
| Delay first up | 10 ms |
| Delay recovery | 0.1 ms |
| Threaded length | 25 mm |
| Height | 12 mm |
| Length | 35 mm |
| Size | 35 mm |
| Product weight | 0.06 kg |

## Environment

| | |
|---|---|
| IP degree of protection | IP68 double insulation conforming to IEC 60529 |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -40...85 °C |
| Shock resistance | 50 gn for 11 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 25 gn amplitude = +/- 2 mm (f = 10-55 Hz) conforming to IEC 60068-2-6 |

## Offer Sustainability

| | |
|---|---|
| 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 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 www.P65Warnings.ca.gov |

## Warranty

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

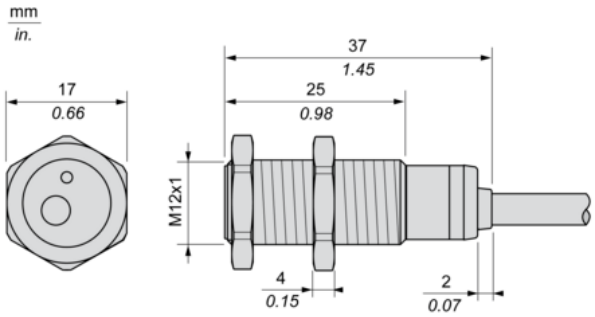
## Packing Units

| | |
|---|---|
| Country of origin | FR (France) |
| Unit type of package 1 | PCE |
| Number of units in package 1 | 1 |
| New Package 1 GTIN-13 | 3666916015292 |
| Package 1 height | 2 cm |

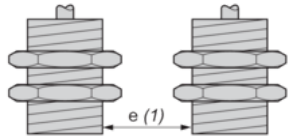
| | |
|---|---|
| Package 1 width | 15 cm |
| Package 1 length | 20 cm |
| Package 1 weight | 0.06 kg |
| Unit type of package 2 | S02 |
| Number of units in package 2 | 22 |
| New Package 2 GTIN 14 | 13666916015299 |
| Package 2 height | 15 cm |
| Package 2 width | 30 cm |
| Package 2 length | 40 cm |
| Package 2 weight | 1.766 kg |
| Unit type of package 3 | CAR |
| Number of units in package 3 | 1 |
| New Package 3 GTIN 14 | 23666916015296 |
| Package 3 height | 9.6 cm |
| Package 3 width | 4.2 cm |
| Package 3 length | 13 cm |
| Package 3 weight | 0.083 kg |

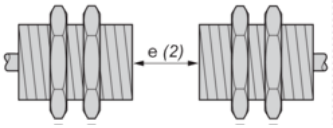
## Technical Drawings

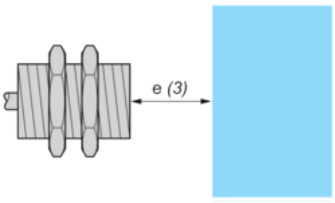
### Dimensions

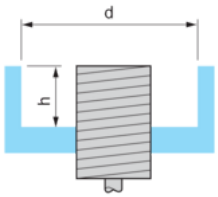


## Minimum Mounting Distances



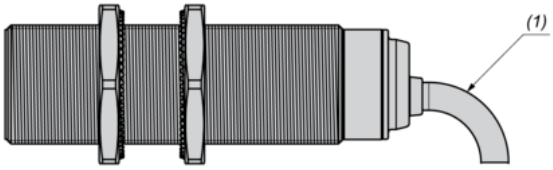



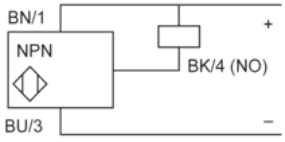

Side by side
e (1) ≥
Face to face
e (2) ≥
Facing a metal object
e (3) ≥
Mounted in a metal support
d ≥
h ≥

## Mounting




(1)

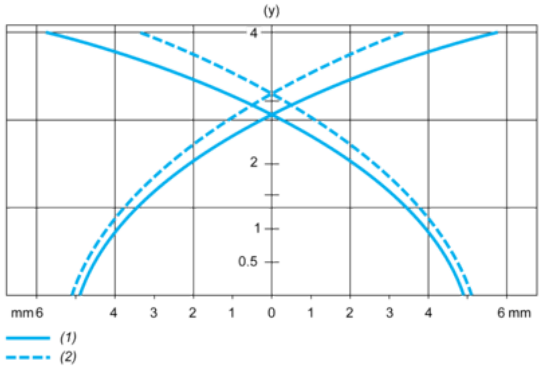
## Wiring Schemes




NPN
BU :
BN :
BK :

## Performance Curves

### Standard Steel Target : 12x12x1 mm




(1)
(2)
(y)