

# XS1N18PA349

Inductive proximity sensors XS, inductive sensor XS1 M18, L39mm, brass, Sn10mm, 12...24 VDC, cable 2 m



## Main

|                                    |   |
|------------------------------------|---|
| Range of Product                   | Telemecanique Inductive proximity sensors XS                                    |
| Series name                        | General purpose   |
| Sensor Type                        | Inductive proximity sensor  |
| Device Application                 | -   |
| Sensor name                        | XS1   |
| Sensor design                      | Cylindrical M18   |
| Size                               | 39 mm   |
| Body type                          | Fixed   |
| Detector flush mounting acceptance | Flush mountable   |
| Material                           | Metal   |
| Enclosure Material                 | Nickel Plated Brass   |
| Type of output signal              | Discrete  |
| Wiring Technique                   | 3-wire  |
| [Sn] nominal sensing distance      | 0.39 in (10 mm)   |
| Discrete output function           | 1 NO  |
| Output circuit type                | DC  |
| Discrete output type               | PNP   |
| Electrical connection              | Cable   |
| Cable length                       | 6.56 ft (2 m)   |
| [Us] rated supply voltage          | 12...24 V DC reverse polarity protection  |
| Switching capacity in mA           | <= 200 mA DC overload and short-circuit protection                              |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                          |                            |
|--------------------------|----------------------------|
| Thread type              | M18 x 1                    |
| Detection face           | Frontal                    |
| Front material           | PPS                        |
| Operating zone           | 0.00...0.31 in (0...8 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...36 V DC               |
| Switching frequency      | <= 1000 Hz                 |
| Maximum voltage drop     | <2 V closed)               |
| Current consumption      | 0...10 mA no-load          |
| Maximum delay first up   | 5 ms                       |
| Maximum delay response   | 0.3 ms                     |
| Maximum delay recovery   | 0.7 ms                     |
| Marking                  | CE                         |
| Threaded length          | 1.10 in (28 mm)            |

|            |                      |
|------------|----------------------|
| Height     | 0.71 in (18 mm)      |
| Length     | 1.54 in (39 mm)      |
| Net Weight | 0.22 lb(US) (0.1 kg) |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product Certifications                | UL<br>CSA                               |
| Ambient Air Temperature for Operation | -13...122 °F (-25...50 °C)              |
| Ambient Air Temperature for Storage   | -40...185 °F (-40...85 °C)              |
| Vibration resistance                  | 25 gn +/- 2 mm 10...55 Hz)IEC 60068-2-6 |
| Shock resistance                      | 50 gn 11 ms IEC 60068-2-27              |

## Ordering and shipping details

|                       |                          |
|-----------------------|--------------------------|
| Category              | 22486-SENSORS, PROXIMITY |
| Discount Schedule     | DS2                      |
| GTIN                  | 3389110911565            |
| Nbr. of units in pkg. | 1                        |
| Package weight(Lbs)   | 3.39 oz (96.0 g)         |
| Returnability         | Yes                      |
| Country of origin     | FR                       |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 0.79 in (2 cm)          |
| Package 1 width              | 5.12 in (13 cm)         |
| Package 1 Length             | 5.12 in (13 cm)         |
| Unit Type of Package 2       | S03                     |
| Number of Units in Package 2 | 44                      |
| Package 2 Weight             | 10.37 lb(US) (4.703 kg) |
| Package 2 Height             | 11.81 in (30 cm)        |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

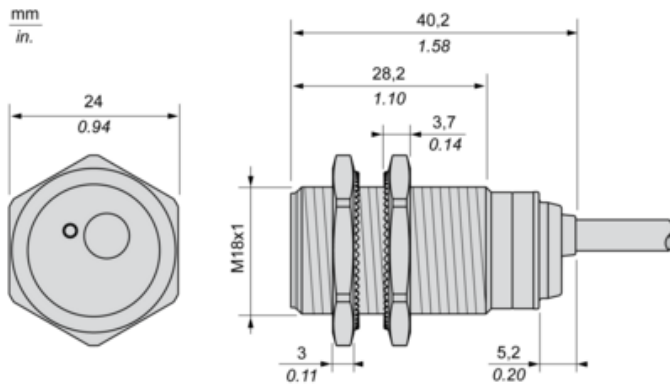
## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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>   |

## Contractual warranty

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

Dimensions



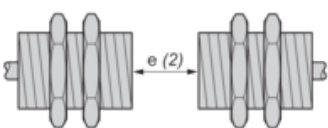
### Minimum Mounting Distances

Side by side



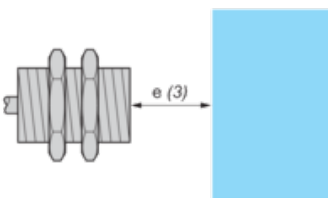
$e (1) \geq 20 \text{ mm}/0.79 \text{ in.}$

Face to face



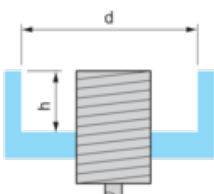
$e (2) \geq 96 \text{ mm}/3.78 \text{ in.}$

Facing a metal object



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

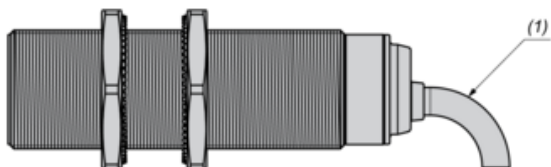
Mounted in a metal support



$d \geq 28 \text{ mm}/1.10 \text{ in.}$

$h \geq 3.6 \text{ mm}/0.14 \text{ in.}$

### Mounting



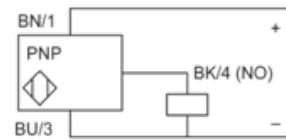
(1) Bending cable: 4 x external cable diameter

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Wiring Schemes

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PNP



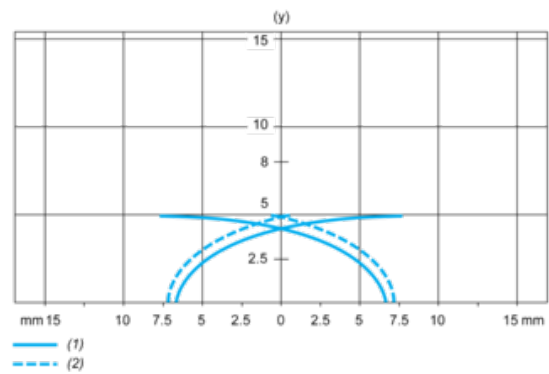
BU : Blue  
BN : Brown  
BK : Black

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Performance Curves

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Standard Steel Target : 18x18x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm

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