

# XS1N18PA349D

Inductive proximity sensors XS, inductive sensor XS1 M18, L50mm, brass, Sn10mm, 12...24 VDC, M12



## 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                               | 50 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      | 10 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<br>IP69K conforming to DIN 40050 |

## Complementary

|                        |                              |
|------------------------|------------------------------|
| Thread type            | M18 x 1                      |
| Detection face         | Frontal                      |
| Front material         | PPS                          |
| Operating zone         | 0...8 mm                     |
| Differential travel    | 1...15% of Sr                |
| 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        | 28 mm                        |
| Height                 | 18 mm                        |
| Length                 | 50 mm                        |
| Net weight             | 0.04 kg                      |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | UL[RETURN]CSA                                                           |
| Ambient air temperature for operation | -25...50 °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             | 2.000 cm  |
| Package 1 Width              | 10.000 cm |
| Package 1 Length             | 12.000 cm |
| Package 1 Weight             | 47.000 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             | 2.420 kg  |

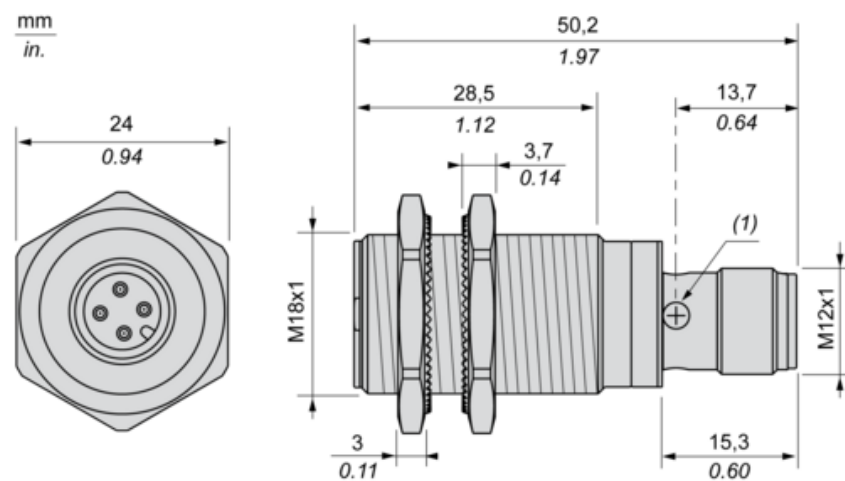
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |

## Contractual warranty

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

## Dimensions



(1) : LED

### 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

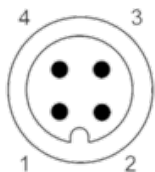


$d \geq 28 \text{ mm}/1.10 \text{ in.}$

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

## Wiring Schemes

M12 connector



PNP

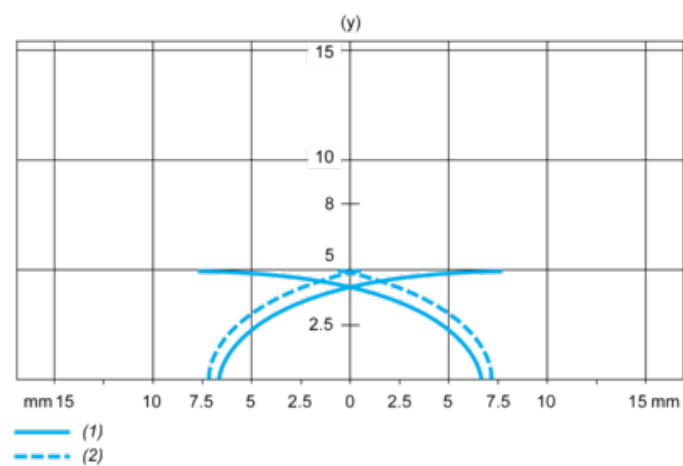


---

Performance Curves

---

Standard Steel Target : 18x18x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm