

# XS212AANAL2

Inductive proximity sensors XS, inductive sensor XS2 M12, L50mm, PPS, Sn7mm, 12...48 VDC, cable 2 m



## Main

|                                    |                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS                                    |
| Series name                        | Application                                                                     |
| Sensor type                        | Inductive proximity sensor                                                      |
| Device application                 | Food and beverage                                                               |
| Market segment                     | Pharmaceutical                                                                  |
| Sensor name                        | XS2                                                                             |
| Sensor design                      | Cylindrical M12                                                                 |
| Size                               | 50 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      | 7 mm                                                                            |
| Discrete output function           | 1 NO                                                                            |
| Output circuit type                | DC                                                                              |
| Discrete output type               | NPN                                                                             |
| Electrical connection              | Cable                                                                           |
| Cable length                       | 2 m                                                                             |
| [Us] rated supply voltage          | 12...48 V DC with reverse polarity protection                                   |
| Switching capacity in mA           | <= 200 mA with 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              | M12 x 1                      |
| Detection face           | Frontal                      |
| Front material           | PPS                          |
| Enclosure material       | PPS                          |
| Sensing range            | > 4...8 mm                   |
| Operating zone           | 0...5.6 mm                   |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>     |
| Wire insulation material | PVC                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...58 V DC                 |
| Switching frequency      | <= 2500 Hz                   |
| Maximum voltage drop     | <2 V (closed)                |
| Current consumption      | <= 10 mA no-load             |
| Maximum delay first up   | 10 ms                        |
| Maximum delay response   | 0.2 ms                       |
| Maximum delay recovery   | 0.2 ms                       |
| Marking                  | CE                           |

|                 |          |
|-----------------|----------|
| Threaded length | 42 mm    |
| Length          | 50 mm    |
| Net weight      | 0.065 kg |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | UL[RETURN]CSA[RETURN]CCC                                                |
| Ambient air temperature for operation | -25...85 °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             | 4.2 cm |
| Package 1 Width              | 9.5 cm |
| Package 1 Length             | 13 cm  |
| Package 1 Weight             | 85 g   |

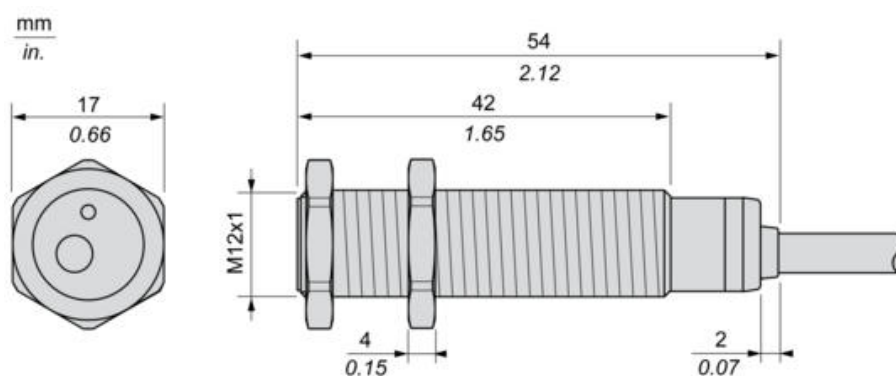
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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



## Minimum Mounting Distances in mm

Side by side



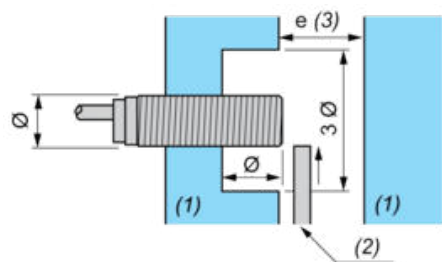
$e (1) \geq 48 \text{ mm}/1.89 \text{ in.}$

Face to face



$e (2) \geq 84 \text{ mm}/3.31 \text{ in}$

Facing a metal object

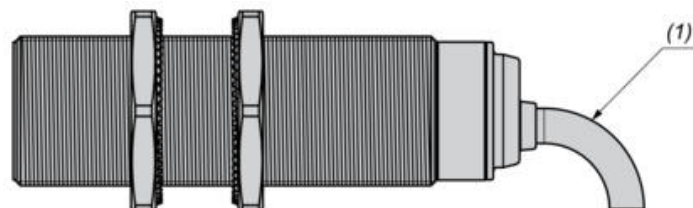


$e (3) \geq 21 \text{ mm}/0.83 \text{ in.}$

(1) Metal

(2) Object to be detected

## Mounting



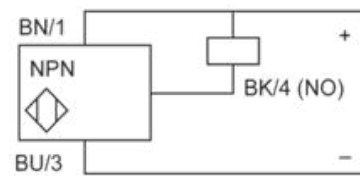
(1) Bending cable: 4 x external cable diameter

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## Wiring Schemes

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NPN



BU : Blue

BN : Brown

BK : Black