

# XS1N05NA310

Inductive proximity sensors XS, inductive sensor XS1 M5, L28mm, brass, Sn1mm, 5..24VDC, cable 2m



## 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 M5                                  |
| Size                               | 28 mm                                           |
| Body type                          | Fixed                                           |
| Detector flush mounting acceptance | Flush mountable                                 |
| Material                           | Metal                                           |
| Type of output signal              | Discrete                                        |
| Wiring Technique                   | 3-wire                                          |
| [Sn] nominal sensing distance      | 0.04 in (1 mm)                                  |
| Discrete output function           | 1 NO                                            |
| Output circuit type                | DC                                              |
| Discrete output type               | NPN                                             |
| Electrical connection              | Cable                                           |
| Cable length                       | 6.56 ft (2 m)                                   |
| [Us] rated supply voltage          | 5...24 V DC                                     |
| Switching capacity in mA           | <= 100 mA overload and short-circuit protection |
| IP degree of protection            | IP67 conforming to IEC 60529                    |

## Complementary

|                          |                             |
|--------------------------|-----------------------------|
| Thread type              | M5 x 0.5                    |
| Detection face           | Frontal                     |
| Front material           | PPS                         |
| Enclosure Material       | Nickel Plated Brass         |
| Operating zone           | 0.00...0.03 in (0...0.8 mm) |
| Cable composition        | 3 x 0.11 mm <sup>2</sup>    |
| Wire insulation material | PvR                         |
| Status LED               | Output state 1 LED yellow)  |
| Supply voltage limits    | 5...30 V DC                 |
| Switching frequency      | <= 5000 Hz                  |
| Maximum voltage drop     | <2 V closed)                |
| Current consumption      | <= 10 mA no-load            |
| Maximum delay first up   | 5 ms                        |
| Maximum delay response   | 1 ms                        |
| Maximum delay recovery   | 1 ms                        |
| Marking                  | CE                          |
| Threaded length          | 0.94 in (24 mm)             |
| Length                   | 1.10 in (28 mm)             |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Product Certifications                | CSA<br>UL                               |
| Ambient Air Temperature for Operation | -13...158 °F (-25...70 °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                  | 3389110911008            |
| Nbr. of units in pkg. | 1                        |
| Package weight(Lbs)   | 1.13 oz (32.0 g)         |
| Returnability         | Yes                      |
| Country of origin     | FR                       |

## Packing Units

|                              |                    |
|------------------------------|--------------------|
| Unit Type of Package 1       | PCE                |
| Package 1 Height             | 1.61 in (4.1 cm)   |
| Package 1 width              | 3.74 in (9.5 cm)   |
| Package 1 Length             | 5.12 in (13 cm)    |
| Unit Type of Package 2       | S02                |
| Number of Units in Package 2 | 22                 |
| Package 2 Weight             | 33.72 oz (956.0 g) |
| Package 2 Height             | 5.91 in (15 cm)    |
| Package 2 width              | 11.81 in (30 cm)   |
| Package 2 Length             | 15.75 in (40 cm)   |
| Package 3 Height             | 5.91 in (15 cm)    |

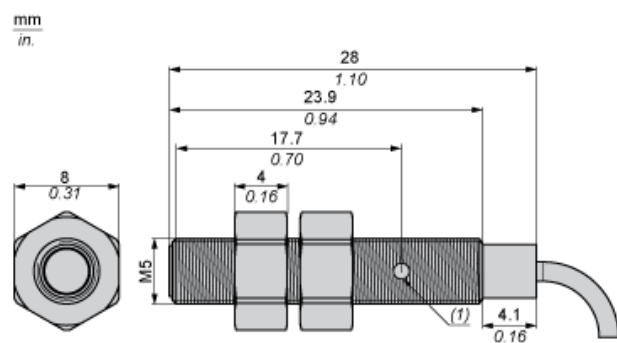
## Offer Sustainability

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

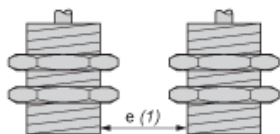
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



## Minimum Mounting Distances in mm

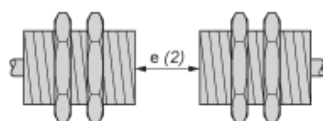
Side by side



e (1) 2 mm/0.79 in.

≥

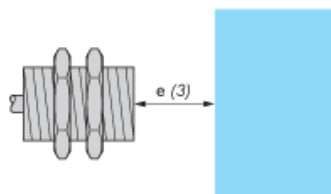
Face to face



e (2) 12 mm/0.47 in.

≥

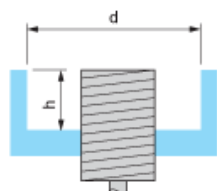
Facing a metal object



e (3) 3 mm/0.12 in.

≥

Mounted in a metal support

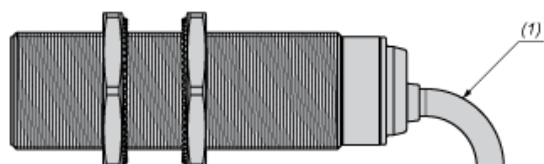


d ≥ 5 mm/0.17 in.

h ≥ 0 mm/0 in.

Tightening torque : 1.6 N.m. (values obtained with washers mounted)

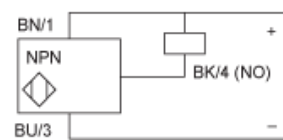
## Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

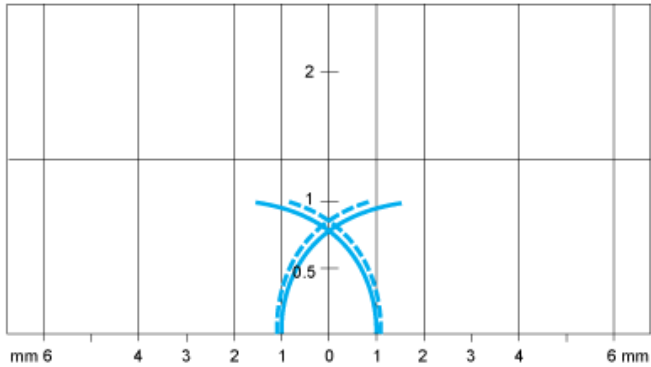
NPN



BU : Blue  
BN : Brown  
BK : Black

Performance Curves

Standard Steel Target (mm) : 5x5x1



— Pick-up points  
--- Drop-out points (object approaching from the side)  
(y) Sensing distance in mm