

# XS108B3NAL2

inductive sensor XS1 M8, L33mm, stainless,  
Sn2.5mm, 12..24VDC, cable 2m



## Main

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| Range of Product                   | Telemecanique Inductive proximity sensors XS                 |
| Series name                        | General purpose                                              |
| Sensor Type                        | Inductive proximity sensor                                   |
| Sensor name                        | XS1                                                          |
| Sensor design                      | Cylindrical M8                                               |
| Size                               | 33 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      | 0.10 in (2.5 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          | 12...24 V DC reverse polarity protection                     |
| Switching capacity in mA           | <= 200 mA overload and short-circuit protection              |
| IP degree of protection            | IP65 conforming to IEC 60529<br>IP67 conforming to IEC 60529 |

## Complementary

|                          |                            |
|--------------------------|----------------------------|
| Thread type              | M8 x 1                     |
| Detection face           | Frontal                    |
| Front material           | PPS                        |
| Enclosure Material       | Stainless steel 303        |
| Operating zone           | 0.00...0.08 in (0...2 mm)  |
| Differential travel      | 1...15% of Sr              |
| Cable composition        | 3 x 0.11 mm <sup>2</sup>   |
| Wire insulation material | PvR                        |
| Status LED               | Output state 1 LED yellow) |
| Supply voltage limits    | 10...36 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          | 0.98 in (25 mm)            |
| Length                   | 1.30 in (33 mm)            |
| Net Weight               | 0.15 lb(US) (0.07 kg)      |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Product Certifications                | UL<br>CSA                               |
| 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          | 21571-SENSORS, ELECTRONIC BASIC XU & XS |
| Discount Schedule | DS2                                     |
| GTIN              | 3389119036085                           |
| Returnability     | No                                      |
| Country of origin | FR                                      |

## Packing Units

|                              |                   |
|------------------------------|-------------------|
| Unit Type of Package 1       | PCE               |
| Number of Units in Package 1 | 1                 |
| Package 1 Height             | 1.77 in (4.5 cm)  |
| Package 1 Width              | 3.94 in (10 cm)   |
| Package 1 Length             | 5.31 in (13.5 cm) |
| Package 1 Weight             | 2.12 oz (60 g)    |

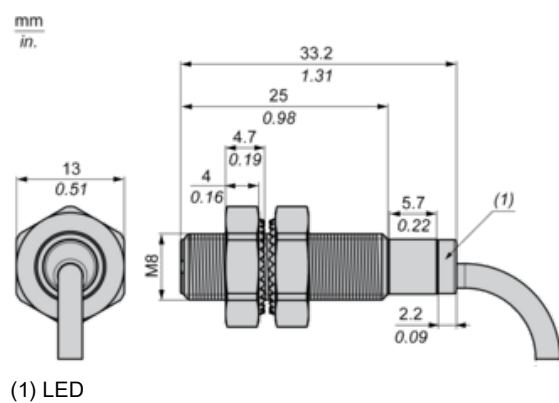
## Offer Sustainability

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

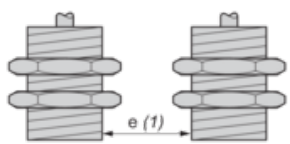
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



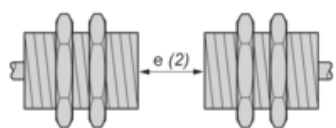
### Minimum Mounting Distances in mm

Side by side



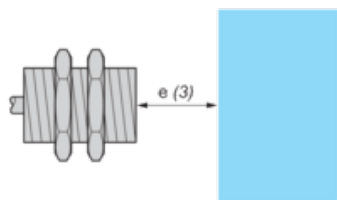
$e (1) \geq 5 \text{ mm}/0.20 \text{ in.}$

Face to face



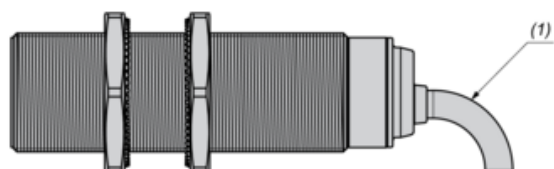
$e (2) \geq 30 \text{ mm}/1.18 \text{ in.}$

Facing a metal object



$e (3) \geq 8 \text{ mm}/0.31 \text{ in.}$

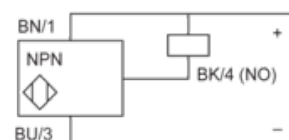
### Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

NPN



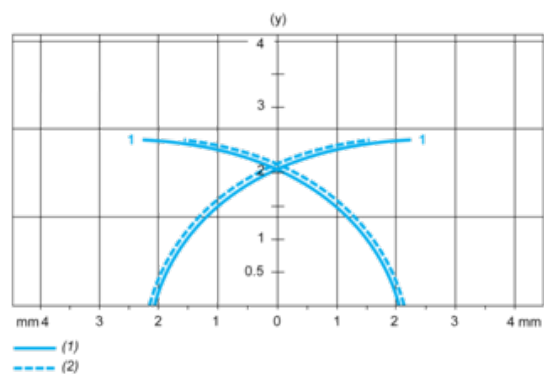
BU : Blue

BN : Brown

BK : Black

## Performance Curves

Standard Steel Target (mm) : 8x8x1



(1) Pick-up points

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

(y) Sensing distance in mm

# Mouser Electronics

Authorized Distributor

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[XS108B3NAL2](#)