# Product data sheet
## Characteristics

# XS112BLNAL2

inductive sensor XS1 M12, L44mm, brass, Sn2mm, 12..24VDC, cable 2m

Green Premium™ Product

## Main

| | |
|---|---|
| Range of Product | Telemecanique Inductive proximity sensors XS |
| Series name | General purpose |
| Sensor Type | Inductive proximity sensor |
| Sensor name | XS1 |
| Sensor design | Cylindrical M12 |
| Size | 44 mm |
| Body type | Fixed |
| Enclosure Material | Nickel Plated Brass |
| Type of output signal | Discrete |
| Wiring Technique | 3-wire |
| [Sn] nominal sensing distance | 0.08 in (2 mm) |
| Discrete output function | 1 NO |
| 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 | IP67 conforming to IEC 60529 |

## Complementary

| | |
|---|---|
| ISO thread | M12 x 1 |
| Detection face | Frontal |
| Detector flush mounting acceptance | Flush mountable |
| Material | Metal |
| Front material | PBT |
| Operating zone | 0.00…0.06 in (0…1.6 mm) |
| Differential travel | 1...15% of Sr |
| Output circuit type | DC |
| Cable composition | 3 x 0.14 mm² |
| Wire insulation material | PVC |
| 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 | 15 ms |
| Maximum delay response | 0.1 ms |
| Maximum delay recovery | 0.15 ms |
| Marking | CE |
| Threaded length | 1.22 in (31 mm) |
| Length | 1.73 in (44 mm) |
| Net Weight | 0.15 lb(US) (0.07 kg) |

## Environment

| | |
|---|---|
| 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 | 22414 - SENSORS, INDUCTIVE, BASIC |
| Discount Schedule | DS2 |
| GTIN | 3389119001731 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 1.80 oz (51 g) |
| Returnability | No |
| Country of origin | ID |

## Packing Units

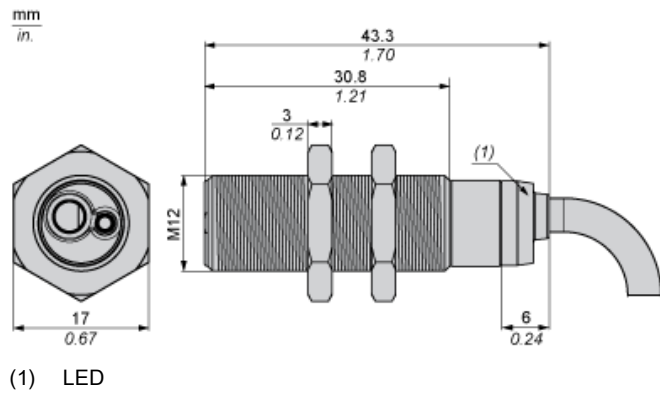| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 0.95 in (2.402 cm) |
| Package 1 width | 4.29 in (10.89 cm) |
| Package 1 Length | 4.69 in (11.911 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 36 |
| Package 2 Weight | 6.61 lb(US) (3 kg) |
| Package 2 Height | 5.91 in (15 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 www.P65Warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

## Contractual warranty

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

# XS112BLNAL2

## Dimensions



(1)    LED

## Minimum Mounting Distances

Side by side



e (1)  4 mm/0.16 in.
≥

Face to face



e (2)  24 mm/0.94 in.
≥

Facing a metal object



e (3)  6 mm/0.24 in.
≥

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# XS112BLNAL2

## Wiring Schemes

NPN



BU : Blue
BN : Brown
BK : Black

## XS112BLNAL2

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Performance Curves

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Standard Steel Target : 12x12x1 mm



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

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