

# XS1M30AB120

Inductive proximity sensors XS, inductive sensor XS1 M30, L50mm, brass, Sn10mm, 12...24 VDC, cable 2 m



## Main

|                                    |  |
|------------------------------------|--|
| Range of Product                   | Telemecanique Inductive proximity sensors XS |
| Series name                        | Application                                  |
| Sensor Type                        | Inductive proximity sensor                   |
| Electrical circuit type            | Analog output                                |
| Sensor name                        | XS1  |
| Sensor design                      | Cylindrical M30                              |
| Size                               | 54 mm  |
| Body type                          | Fixed  |
| Detector flush mounting acceptance | Flush mountable                              |
| Material                           | Metal  |
| Type of output signal              | Analogue                                     |
| Wiring Technique                   | 2-wire                                       |
| [Sn] nominal sensing distance      | 0.39 in (10 mm)                              |
| Discrete output function           | 1 NC   |
| Output circuit type                | DC   |
| Analogue output range              | 4...20 mA                                    |
| Electrical connection              | Cable  |
| Cable length                       | 6.56 ft (2 m)                                |
| [Us] rated supply voltage          | 12...24 V DC                                 |
| IP degree of protection            | IP67 conforming to IEC 60529                 |

## Complementary

|                              |                            |
|------------------------------|----------------------------|
| Thread type                  | M30 x 1.5                  |
| Detection face               | Frontal                    |
| Front material               | PPS                        |
| Enclosure Material           | Nickel Plated Brass        |
| Operating zone               | 0.04...0.39 in (1...10 mm) |
| Repeat accuracy              | <= 3% of Sr                |
| Linearity error              | +/- 2 mA                   |
| Cable composition            | 3 x 0.34 mm <sup>2</sup>   |
| Wire insulation material     | PVC                        |
| Supply voltage limits        | 10...36 V DC               |
| Switching frequency          | <= 300 Hz                  |
| Current consumption          | 4 mA no-load               |
| Maximum output current drift | 10 %                       |
| Marking                      | CE                         |
| Threaded length              | 1.65 in (42 mm)            |
| Height                       | 1.18 in (30 mm)            |
| Length                       | 1.97 in (50 mm)            |
| Net Weight                   | 0.44 lb(US) (0.2 kg)       |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

|                                       |                            |
|---------------------------------------|----------------------------|
| Product Certifications                | CSA<br>UL                  |
| Ambient Air Temperature for Operation | -13...158 °F (-25...70 °C) |

## Ordering and shipping details

|                   |                          |
|-------------------|--------------------------|
| Category          | 22486-SENSORS, PROXIMITY |
| Discount Schedule | DS2                      |
| GTIN              | 3389110524642            |
| Returnability     | Yes                      |
| Country of origin | FR                       |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 1.97 in (5.0 cm)       |
| Package 1 Width              | 3.62 in (9.2 cm)       |
| Package 1 Length             | 5.16 in (13.1 cm)      |
| Package 1 Weight             | 6.38 oz (181.0 g)      |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 12                     |
| 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 2 Weight             | 5.49 lb(US) (2.492 kg) |

## 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 |
|----------|-----------|

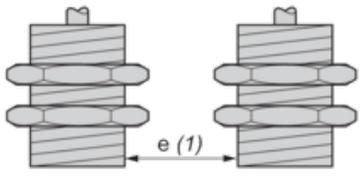


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Minimum Mounting Distances

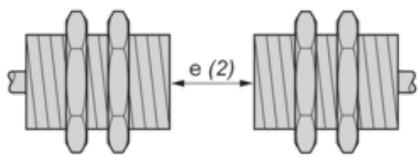
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Side by side



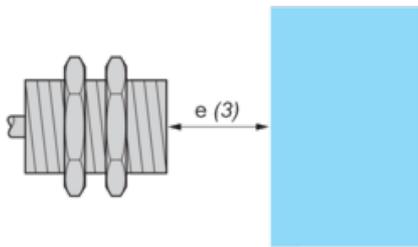
$e(1) \geq 20 \text{ mm}/0.79 \text{ in}$

Face to face



$e(2) \geq 120 \text{ mm}/4.72 \text{ in}$

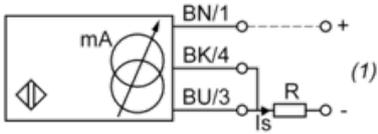
Facing a metal object



$e(3) \geq 30 \text{ mm}/1.18 \text{ in.}$

Wiring Schemes

2-Wire connection



(1) Output current

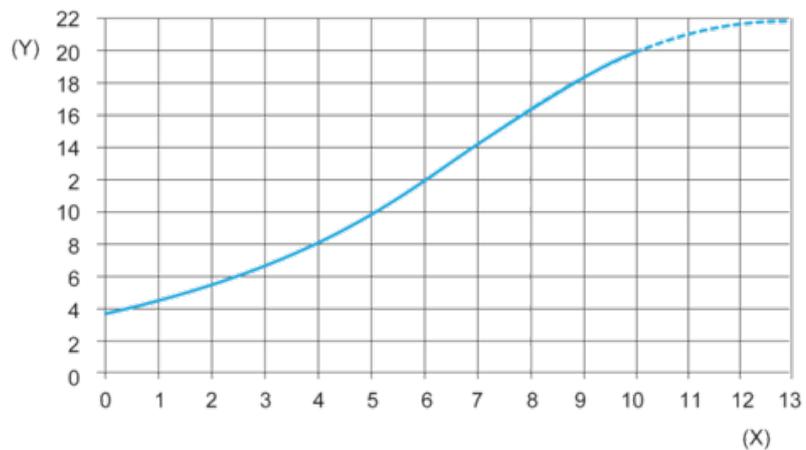
BN : Brown

BK : Black

BU : Blue

|  | Output current | Load impedance value |
|--|----------------|----------------------|
| 12 V   | 4...20 mA      | $R \leq 8.2 \Omega$  |
| 24 V   | 4...20 mA      | $R \leq 470 \Omega$  |
| Ensure a minimum of 10 V between the + and the - (terminal 3) of the sensor. |                |                      |

Output Curves



(Y) Is (mA)

(X) Sensors - object distance (mm)