

# XS1M18AB120

Inductive proximity sensors XS, inductive sensor XS1 M18, L53mm, brass, Sn5mm, 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 M18                              |
| Size                               | 56 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      | 5 mm                                         |
| Discrete output function           | 1 NC                                         |
| Output circuit type                | DC                                           |
| Analogue output range              | 4...20 mA                                    |
| Electrical connection              | Cable                                        |
| Cable length                       | 2 m                                          |
| [Us] rated supply voltage          | 12...24 V DC                                 |
| IP degree of protection            | IP67 conforming to IEC 60529                 |

## Complementary

|                              |                          |
|------------------------------|--------------------------|
| Thread type                  | M18 x 1                  |
| Detection face               | Frontal                  |
| Front material               | PPS                      |
| Enclosure material           | Nickel plated brass      |
| Operating zone               | 0.5...5 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          | <= 500 Hz                |
| Current consumption          | 4 mA no-load             |
| Maximum output current drift | 10 %                     |
| Marking                      | CE                       |
| Threaded length              | 44 mm                    |
| Height                       | 18 mm                    |
| Length                       | 53 mm                    |
| Net weight                   | 0.12 kg                  |

## Environment

|                                       |               |
|---------------------------------------|---------------|
| Product certifications                | UL[RETURN]CSA |
| Ambient air temperature for operation | -25...70 °C   |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 4.100 cm  |
| Package 1 Width              | 9.500 cm  |
| Package 1 Length             | 13.000 cm |
| Package 1 Weight             | 113.000 g |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 44        |
| Package 2 Height             | 30 cm     |
| Package 2 Width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Package 2 Weight             | 5.320 kg  |

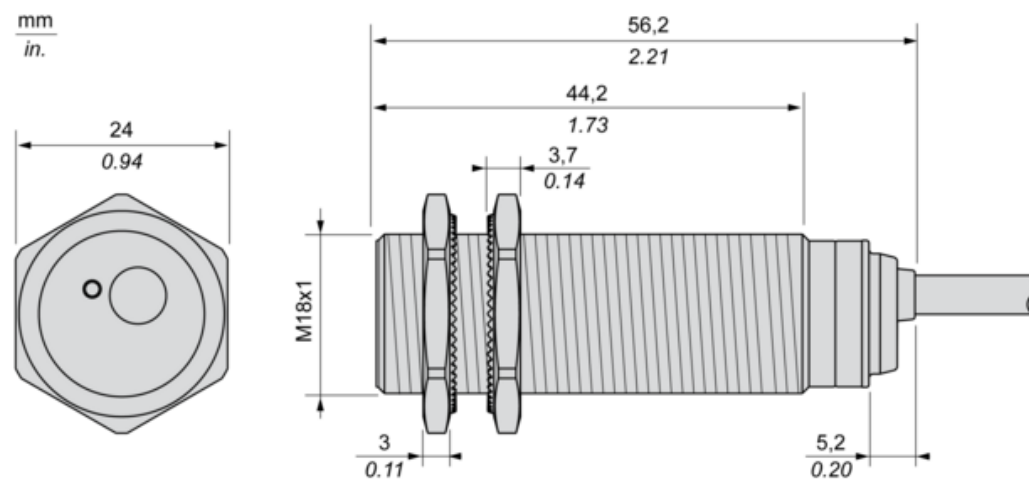
## Offer Sustainability

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

Side by side



$e (1) \geq 10 \text{ mm}/0.39 \text{ in.}$

Face to face



$e (2) \geq 60 \text{ mm}/2.36 \text{ in.}$

Facing a metal object



$e (3) \geq 15 \text{ mm}/0.60 \text{ in}$

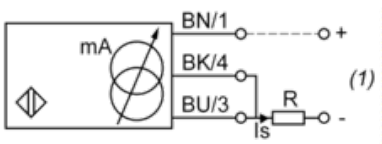
### Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

2-Wire connection



(1) Output current

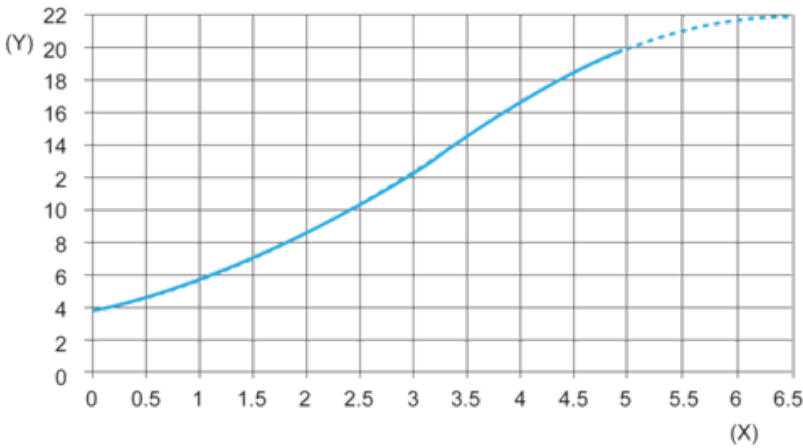
BN : Brown

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)