

# XS1M18KP340

inductive sensor XS1 M18, L60mm, brass,  
Sn5mm, 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 M18                                      |
| Size                               | 60 mm                                                |
| Body type                          | Fixed                                                |
| Detector flush mounting acceptance | Flush mountable                                      |
| Material                           | Metal                                                |
| Type of output signal              | Discrete                                             |
| Wiring technique                   | 4-wire                                               |
| [Sn] nominal sensing distance      | 5 mm                                                 |
| Discrete output function           | 1 NO or 1 NC programmable                            |
| Output circuit type                | DC                                                   |
| Discrete output type               | PNP and NPN                                          |
| Electrical connection              | Cable                                                |
| Cable length                       | 2 m                                                  |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection        |
| Switching capacity in mA           | <= 200 mA with overload and short-circuit protection |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529       |

## Complementary

|                          |                              |
|--------------------------|------------------------------|
| Thread type              | M18 x 1                      |
| Detection face           | Frontal                      |
| Front material           | PPS                          |
| Enclosure material       | Nickel plated brass          |
| Operating zone           | 0...4 mm                     |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 4 x 0.22 mm <sup>2</sup>     |
| Wire insulation material | PVC                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...36 V DC                 |
| Switching frequency      | <= 2000 Hz                   |
| Maximum voltage drop     | <2.6 V (closed)              |
| Current consumption      | 0...10 mA no-load            |
| Maximum delay first up   | 5 ms                         |
| Maximum delay response   | 0.15 ms                      |
| Maximum delay recovery   | 0.35 ms                      |
| Marking                  | CE                           |
| Threaded length          | 51 mm                        |
| Length                   | 60 mm                        |
| Net weight               | 0.12 kg                      |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | UL[RETURN]CSA                                                           |
| Ambient air temperature for operation | -25...70 °C                                                             |
| Ambient air temperature for storage   | -40...85 °C                                                             |
| Vibration resistance                  | 25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 50 gn for 11 ms conforming to IEC 60068-2-27                            |

## 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             | 115.000 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             | 5.500 kg  |

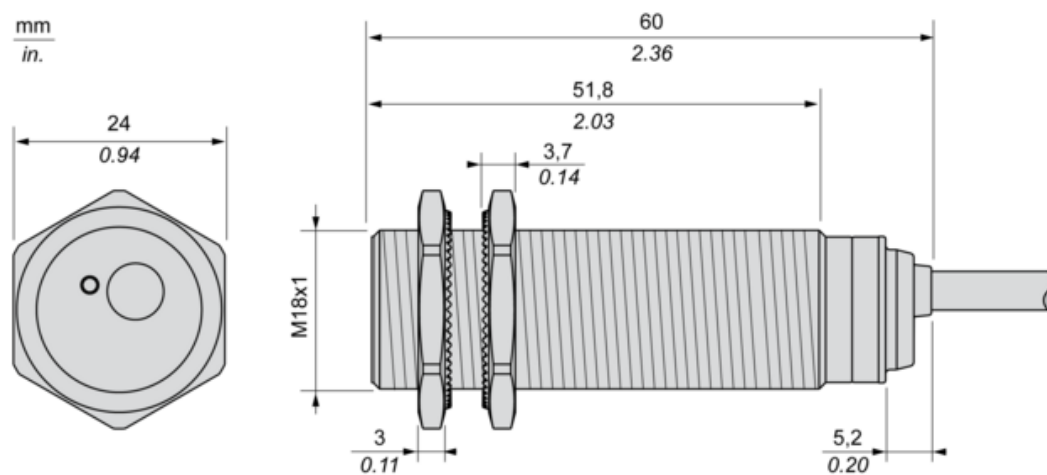
## Offer Sustainability

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



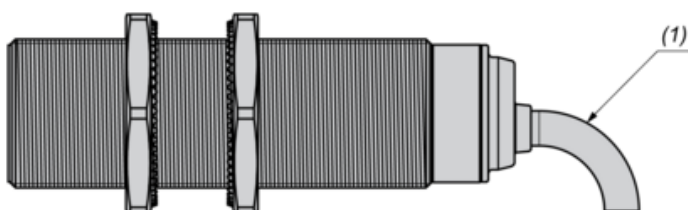
$e (2) \geq 60 \text{ mm}/2.36 \text{ in.}$

Facing a metal object



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

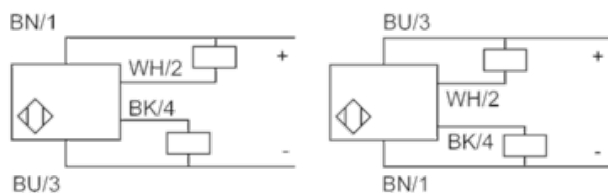
### Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

4-Wire DC, PNP/NPN, NO or NC Output



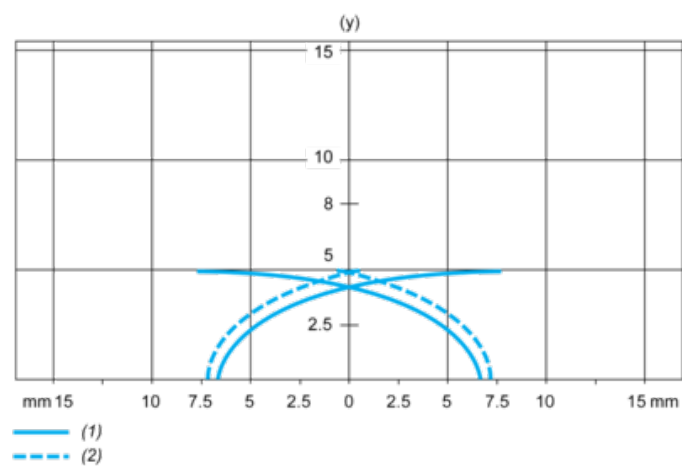
BU : Blue  
BN : Brown  
BK : Black  
WH : White

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Performance Curves

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Standard Steel Target : 18x18x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm