

Inductive proximity sensors XS, inductive sensor XS1 M18, L72mm, brass, Sn5mm, 24...240VAC/DC, 1/2"



Main

|                                    |  |
|------------------------------------|--|
| Range of product                   | Telemecanique Inductive proximity sensors XS   |
| Series name                        | General purpose  |
| Sensor type                        | Inductive proximity sensor   |
| Wiring configuration               | 2-wire   |
| Output circuit type                | AC/DC  |
| Protection type                    | Short-circuit protection multi voltage   |
| Device application                 | 2-wire DC short-circuit protection   |
| Sensor name                        | XS1  |
| Sensor design                      | Cylindrical M18  |
| Size                               | 72 mm  |
| Body type                          | Fixed  |
| Detector flush mounting acceptance | Flush mountable  |
| Material                           | Metal  |
| Type of output signal              | Discrete   |
| Wiring technique                   | 2-wire   |
| [Sn] nominal sensing distance      | 5 mm   |
| Discrete output function           | 1 NO   |
| Electrical connection              | Male connector 1/2"20 UNF, 3 pins  |
| [Us] rated supply voltage          | 24...210 V DC<br>24...240 V AC 50/60 Hz  |
| Switching capacity in mA           | 5...300 mA AC with overload and short-circuit protection<br>5...200 mA DC with overload and short-circuit protection |
| 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...4 mm   |
| Differential travel      | 1...15% of Sr  |
| Status LED               | Output state: 1 LED (yellow)<br>Supply on: 1 LED (green) |
| Maximum residual current | 1.5 mA open state  |
| Switching frequency      | <= 2000 Hz DC<br><= 25 Hz AC                             |
| Maximum voltage drop     | <5.5 V (closed state)                                    |
| Maximum delay first up   | 70 ms  |
| Maximum delay response   | 2 ms   |
| Maximum delay recovery   | 4 ms   |
| Marking                  | CE   |
| Threaded length          | 51 mm  |
| Length                   | 72 mm  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | CCC[RETURN]CSA[RETURN]UL  |
| 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 60068-2-7                             |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 6.700 cm |
| Package 1 Width              | 9.500 cm |
| Package 1 Length             | 4.100 cm |
| Package 1 Weight             | 63.000 g |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 22       |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 15 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 1.837 kg |

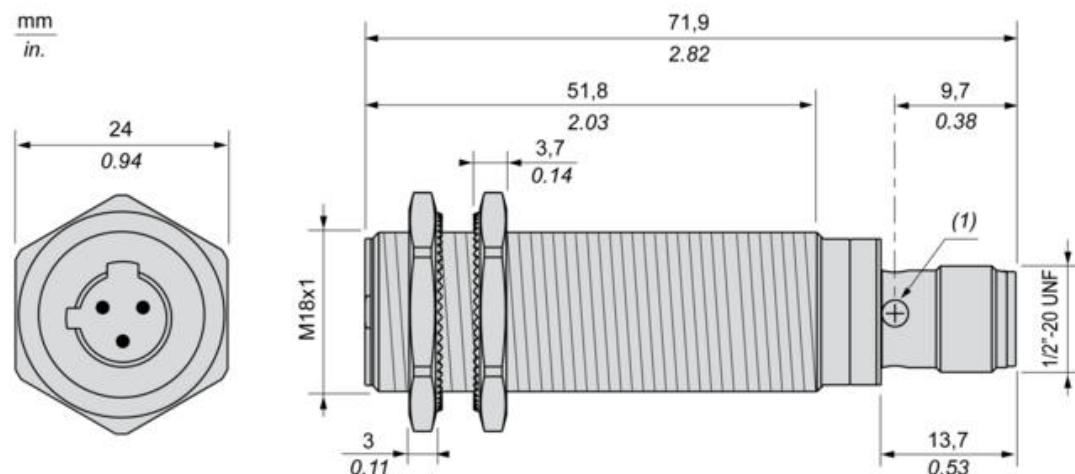
## Offer Sustainability

|  |   |
|--|---|
| Sustainable offer status                   | Green Premium product   |
| Circularity Profile                        |  End of Life Information  |
| California proposition 65                  | WARNING: This product can expose you to chemicals including: Diisobutyl 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



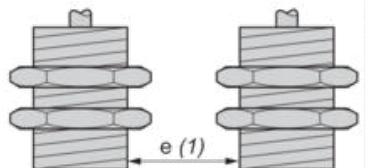
(1) : LED

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Minimum Mounting Distances

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Side by side



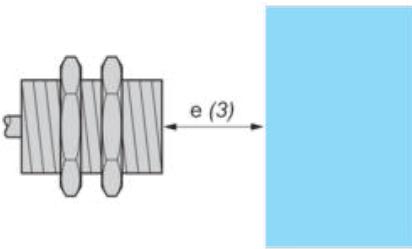
$e (1) \geq 10 \text{ mm/0.39 in.}$

Face to face



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

Facing a metal object



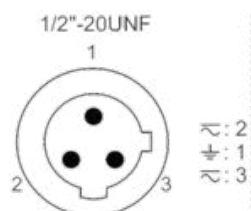
$e (3) \geq 15 \text{ mm/0.60 in}$

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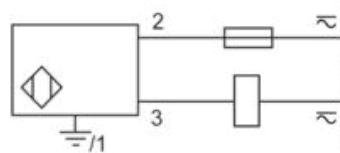
### Wiring Schemes

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1/2"-20UNF



1 : Grounding  
2 : AC  
3 : AC  
NO output

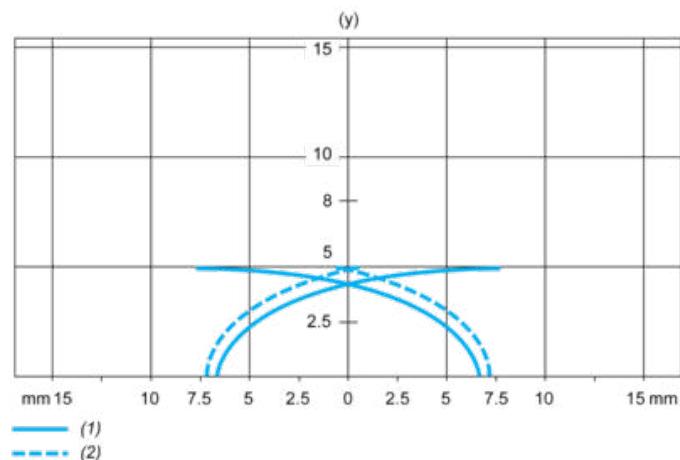


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Performance Curves

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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