

# XS1M18MA250K

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



Product availability: Stock - Normally stocked in distribution facility

Price\*: 152.27 USD



## 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      | 0.20 ln (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 overload and short-circuit protection<br>5...200 mA DC 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           | 0.00...0.16 In (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          | 2.01 In (51 mm)  |
| Length                   | 2.83 In (72 mm)  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | CCC<br>CSA<br>UL                        |
| 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 60068-2-7               |

## Ordering and shipping details

|                       |                            |
|-----------------------|----------------------------|
| Category              | 22486 - SENSORS, PROXIMITY |
| Discount Schedule     | DS2                        |
| GTIN                  | 03389110915686             |
| Nbr. of units in pkg. | 1                          |
| Package weight(Lbs)   | 2.22 Oz (63 g)             |
| Returnability         | Yes                        |
| Country of origin     | FR                         |

## Packing Units

|                        |                  |
|------------------------|------------------|
| Unit Type of Package 1 | PCE              |
| Package 1 Height       | 1.61 In (4.1 cm) |
| Package 1 width        | 2.64 In (6.7 cm) |
| Package 1 Length       | 3.74 In (9.5 cm) |

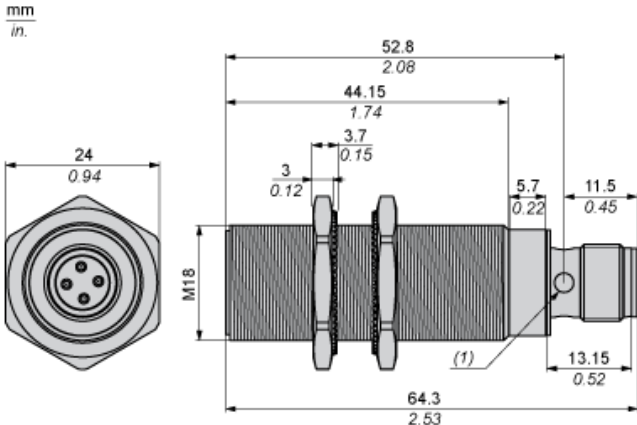
## Offer Sustainability

|                            |  |
|----------------------------|--|
| 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 Diisodecyl 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 |
|----------|-----------|

Dimensions



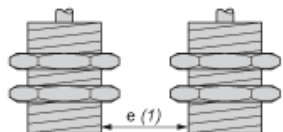
(1) LED

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Minimum Mounting Distances

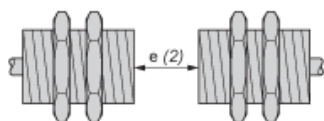
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Side by side



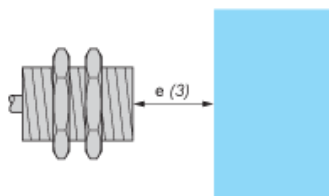
$e (1) \geq 10 \text{ mm}/0.39 \text{ in.}$

Face to face



$e (2) \geq 10 \text{ mm}/2.36 \text{ in.}$

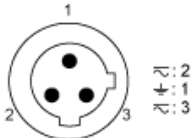
Facing a metal object



$e (3) \geq 5 \text{ mm}/0.60 \text{ in.}$

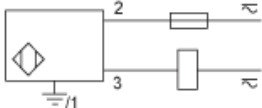
Wiring Schemes

1/2"-20UNF  
1/2"-20UNF



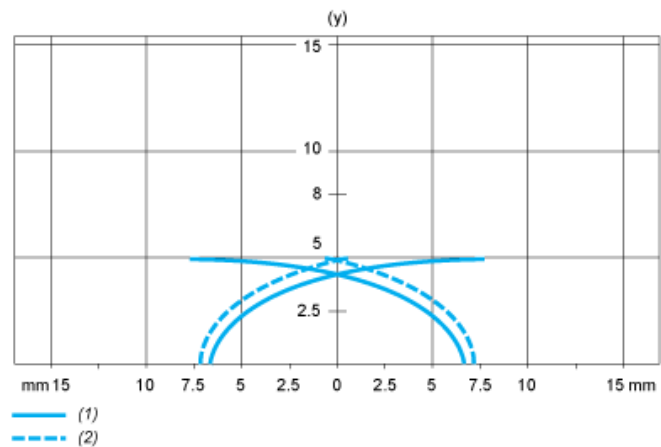
- 1: Grounding
- 2: AC
- 3: AC

NO output



Performance Curves

Standard Steel Target : 18x18x1 mm



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

Product Life Status : **Commercialised**