

XS2M18MA250KTF

Inductive proximity sensors XS, inductive sensor XS2 M18, L72mm, brass, Sn8mm, 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 | XS2 |
| Sensor design | Cylindrical M18 |
| Size | 72 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Non flush mountable |
| Material | Metal |
| Type of output signal | Discrete |
| Wiring technique | 2-wire |
| [Sn] nominal sensing distance | 8 mm |
| Discrete output function | 1 NO |
| Electrical connection | Male connector 1/2"20 UNF, 3 pins |
| [Us] rated supply voltage | 24...210 V DC 24...240 V AC 50/60 Hz |
| Switching capacity in mA | 5...300 mA AC with overload and short-circuit protection 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...6.4 mm |
| Differential travel | 1...15% of Sr |
| Status LED | Output state: 1 LED (yellow) Supply on: 1 LED (green) |
| Supply voltage limits | 20...264 V AC/DC |
| Maximum residual current | 1.5 mA open state |
| Switching frequency | <= 2000 Hz DC <= 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 | 44 mm |
| Length | 72 mm |


Environment

| | |
|---------------------------------------|---|
| Product certifications | CCC[RETURN]CSA[RETURN]UL |
| Ambient air temperature for operation | -40...70 °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 | 9.4 cm |
| Package 1 Width | 4.1 cm |
| Package 1 Length | 6.4 cm |
| Package 1 Weight | 71 g |

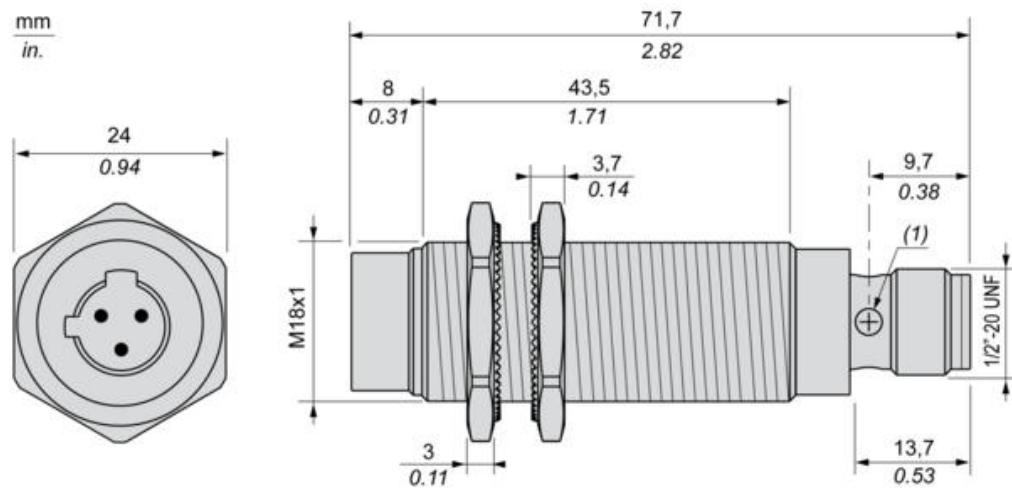
Offer Sustainability

| | |
|--|---|
| Sustainable offer status | Green Premium product |
| Circularity Profile |  End of Life Information |
| California proposition 65 | WARNING: This product can expose you to chemicals including: 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 www.P65Warnings.ca.gov |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



(1) : LED

Minimum Mounting Distances

Side by side



$e (1) \geq 32 \text{ mm}/1.26 \text{ in.}$

Face to face



$e (2) \geq 96 \text{ mm}/3.78 \text{ in.}$

Facing a metal object



$e (3) \geq 24 \text{ mm}/0.94 \text{ in.}$

Mounted in a metal support

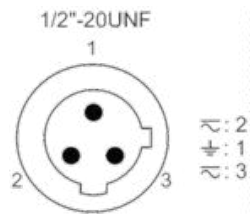


$d \geq 56 \text{ mm}/2.20 \text{ in.}$

$h \geq 16 \text{ mm}/0.63 \text{ in.}$

Wiring Schemes

1/2"-20UNF

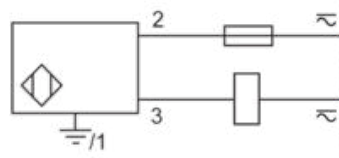


1 : Grounding

2 : AC

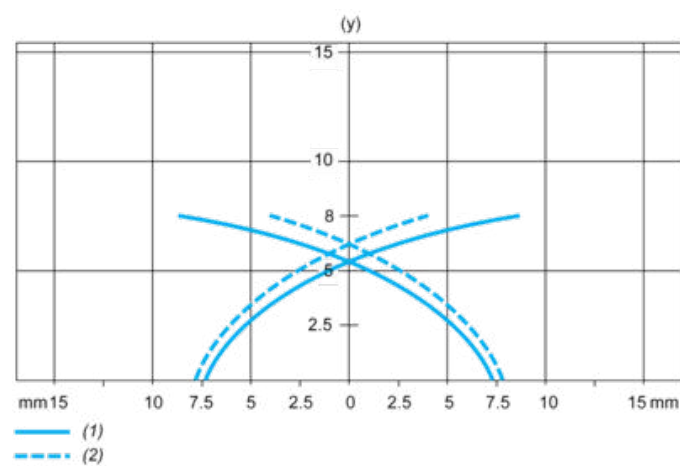
3 : AC

NO output



Performance Curves

Standard Steel Target : 24x24x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm