# XS1M18PAS20D

Inductive proximity sensors XS, inductive sensor XS1 M18, L70mm, stainless, Sn5mm, 12...24 VDC, M12

## Main

| | |
|---|---|
| Range of Product | Telemecanique Inductive proximity sensors XS |
| Series name | Application |
| Sensor Type | Inductive proximity sensor |
| Device Application | Selective detection of non ferrous materials |
| Sensor name | XS1 |
| Sensor design | Cylindrical M18 |
| Size | 70 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Flush mountable |
| Material | Stainless steel |
| Type of output signal | Discrete |
| Wiring Technique | 3-wire |
| [Sn] nominal sensing distance | 0.20 in (5 mm) |
| Discrete output function | 1 NO |
| Output circuit type | DC |
| Discrete output type | PNP |
| Electrical connection | Male connector M12, 4 pins |
| [Us] rated supply voltage | 12...24 V DC reverse polarity protection |
| Switching capacity in mA | <= 200 mA 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 | Stainless steel : 304 CU |
| Operating zone | 0.00…0.16 in (0…4 mm) |
| Status LED | Output state 1 LED yellow) |
| Supply voltage limits | 10…38 V DC |
| Switching frequency | <= 1000 Hz |
| Maximum voltage drop | <2.6 V closed) |
| Current consumption | 0...15 mA no-load |
| Maximum delay first up | 10 ms |
| Maximum delay response | 0.3 ms |
| Maximum delay recovery | 0.7 ms |
| Marking | CE |
| Threaded length | 2.05 in (52 mm) |
| Height | 0.71 in (18 mm) |
| Length | 2.76 in (70 mm) |
| Net Weight | 1.32 lb(US) (0.6 kg) |

## Environment

| | |
|---|---|
| Product Certifications | UL<br>CSA |
| Ambient Air Temperature for Operation | -13…158 °F (-25…70 °C) |

## Ordering and shipping details

| | |
|---|---|
| Category | 22486-SENSORS, PROXIMITY |
| Discount Schedule | DS2 |
| GTIN | 3389110873832 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 2.50 oz (70.9 g) |
| Returnability | No |
| Country of origin | FR |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.77 in (4.5 cm) |
| Package 1 width | 3.19 in (8.1 cm) |
| Package 1 Length | 2.83 in (7.2 cm) |
| Unit Type of Package 2 | S01 |
| Number of Units in Package 2 | 9 |
| Package 2 Weight | 30.83 oz (874.0 g) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 5.91 in (15 cm) |
| Package 2 Length | 15.75 in (40 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 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 |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

## Contractual warranty

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

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# XS1M18PAS20D

## Dimensions
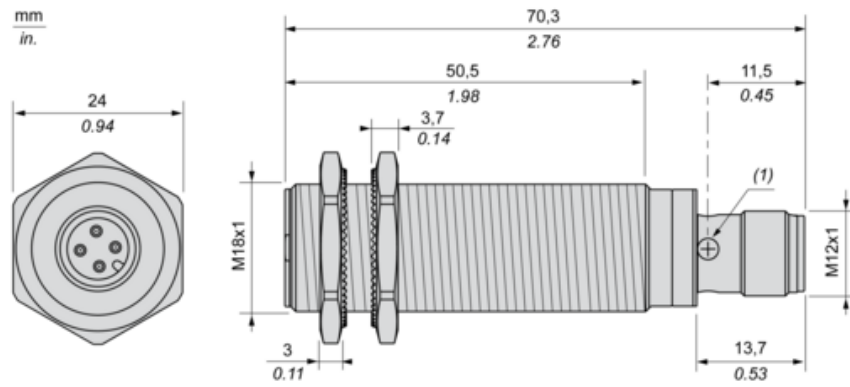


(1) : LED

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## Minimum Mounting Distances

Side by side



e (1) ≥ 10 mm/0.39 in.

Face to face



e (2) ≥ 60 mm/2.36 in.

Facing a metal object



e (3) ≥ 15 mm/0.60 in

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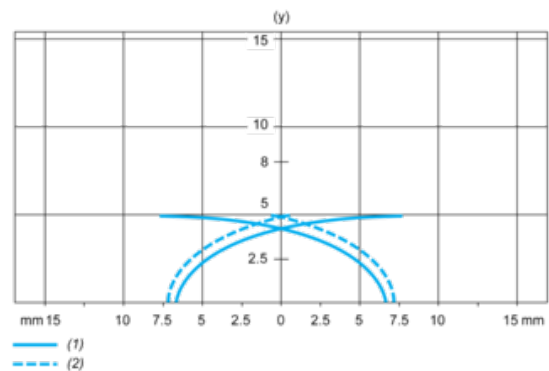## Wiring Schemes

### M12 connector
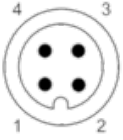


### PNP
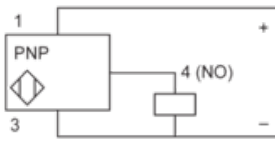
## Performance Curves

### Standard Steel Target : 18x18x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm