



Inductive proximity sensors XS, inductive sensor XS9 40x40x70, PBT, Sn25 mm, 12...24 VDC, M12

XS9C2A2A2M12

Main

| Range of product | Telemecanique Inductive proximity sensors XS |
|------------------------------------|---|
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Device application | - |
| Sensor name | XS9 |
| Sensor design | Form 40 x 40 x 70 |
| Size | 70 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Non flush mountable |
| Material | Plastic |
| Enclosure material | PBT |
| Type of output signal | Analogue |
| Wiring technique | 2-wire |
| [Sn] nominal sensing distance | 25 mm |
| Output circuit type | DC |
| Analogue output range | 420 mA |
| Electrical connection | Male connector M12, 4 pins |
| [Us] rated supply voltage | 1224 V DC with reverse polarity protection |
| IP degree of protection | IP67 conforming to IEC 60529 IP65 conforming to IEC 60529 IP69K conforming to DIN 40050 |

Complementary

| Detection face | 5 positions turret head |
|------------------------------|------------------------------|
| Front material | PBT |
| Operating zone | 227 mm |
| Linearity error | <= 3% of Sr |
| Maximum output current drift | 5 % |
| Status LED | Output state: 1 LED (vellow) |

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| Supply voltage limits | 1236 V DC |
|------------------------|---------------|
| Current consumption | 04 mA no-load |
| Maximum delay first up | 7.5 ms |
| Maximum delay response | 6 ms |
| Maximum delay recovery | 6 ms |
| Marking | CE |
| Height | 40 mm |
| Length | 40 mm |
| Width | 70 mm |
| Net weight | 0.149 kg |
| | |

Environment

| Product certifications | CSA UL | |
|---------------------------------------|--|--|
| Ambient air temperature for operation | -2570 °C | |
| Ambient air temperature for storage | -4085 °C | |
| Vibration resistance | 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 | |
| Shock resistance | 50 gn for 11 ms conforming to EN 60068-2-27 | |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|-----------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.6 cm |
| Package 1 Width | 4.2 cm |
| Package 1 Length | 8.7 cm |
| Package 1 Weight | 150.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 42 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 6.783 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 672 |
| Package 3 Height | 80.0 cm |
| Package 3 Width | 80.0 cm |
| Package 3 Length | 60.0 cm |
| Package 3 Weight | 109.86 kg |

Offer Sustainability

| Sustainable offer status | Green Premium product | |
|--------------------------|--|--|
| REACh Regulation | REACh Declaration | |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) | |

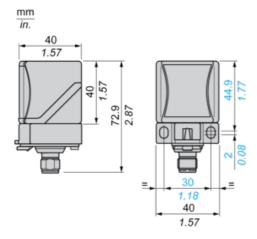
| Mercury free | Yes | |
|----------------------------|---|--|
| RoHS exemption information | Yes | |
| Environmental Disclosure | Product Environmental Profile | |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to 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 | |
| Contractual warranty | | |

Warranty 18 months

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Dimensions Drawings

Dimensions

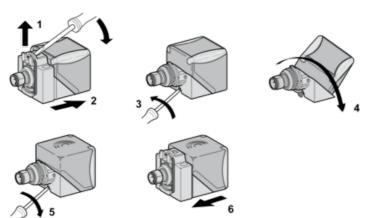


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Mounting and Clearance

Mounting

Head Positions



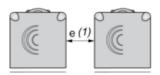
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Mounting and Clearance

Setting-up Precautions

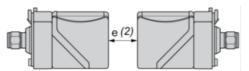
Minimum Mounting Distances (mm)

Side by Side



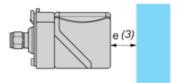
e (1) ≥ 120

Face to Face



e (2) ≥ 240

Facing a Metal Object



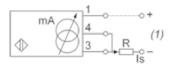
e (3) ≥ 90

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Connections and Schema

Wiring Schemes

2-Wire



(1) Output current

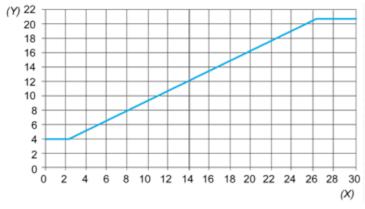
Ensure a minimum of 10 V between the + and the - (terminal 3)of the sensor

| | Output current | Load impedance value |
|------|----------------|----------------------|
| 12 V | 420 mA | R ≤ 82 Ω |
| 24 V | 420 mA | R ≤ 560 Ω |

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Performance Curves

Analogue Outputs



- (Y) Output current (mA)
- (X) Sensing distance (mm)

Recommended replacement(s)