

XS108B3PAM8

inductive sensor XS1 M8 - L42.5mm - brass -
Sn2.5mm - 12..24VDC - M8



Main

| | |
|------------------------------------|--|
| Range of product | OsiSense XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Sensor name | XS1 |
| Sensor design | Cylindrical M8 |
| Size | 42 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Flush mountable |
| Material | Metal |
| Type of output signal | Discrete |
| Wiring technique | 3-wire |
| [Sn] nominal sensing distance | 2.5 mm |
| Discrete output function | 1 NO |
| Output circuit type | DC |
| Discrete output type | PNP |
| Electrical connection | Male connector M8, 3 pins |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Switching capacity in mA | <= 200 mA with overload and short-circuit protection |
| IP degree of protection | IP65 conforming to IEC 60529 IP67 conforming to IEC 60529 |

Complementary

| | |
|------------------------|------------------------------|
| Thread type | M8 x 1 |
| Detection face | Frontal |
| Front material | PPS |
| Enclosure material | Nickel plated brass |
| Operating zone | 0...2 mm |
| Differential travel | 1...15% of Sr |
| Status LED | Output state: 1 LED (yellow) |
| Supply voltage limits | 10...36 V DC |
| Switching frequency | <= 2500 Hz |
| Maximum voltage drop | <2 V (closed) |
| Current consumption | <= 10 mA no-load |
| Maximum delay first up | 10 ms |
| Maximum delay response | 0.2 ms |
| Maximum delay recovery | 0.2 ms |
| Marking | CE |
| Threaded length | 26 mm |
| Length | 42 mm |

Environment

| | |
|---------------------------------------|---|
| Product certifications | CSA 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 60068-2-27 |

Packing Units

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|------------------|----------|
| Package 1 Weight | 0.029 kg |
| Package 1 Height | 0.660 dm |
| Package 1 width | 0.410 dm |
| Package 1 Length | 0.950 dm |

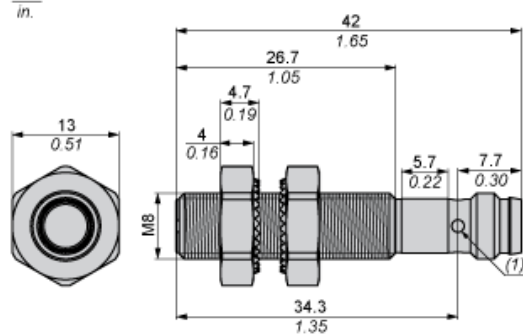
Offer Sustainability

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

Dimensions

$$\frac{\text{mm}}{\text{in.}}$$


(1) LED

Minimum Mounting Distances in mm

Side by side



e (1) 5 mm/0.20 in.

≥

Face to face



e (2) 30 mm/1.18 in.

≥

Facing a metal object

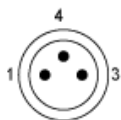


e (3) 8 mm/0.31 in.

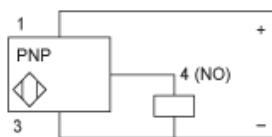
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Wiring Schemes

M8 Connector

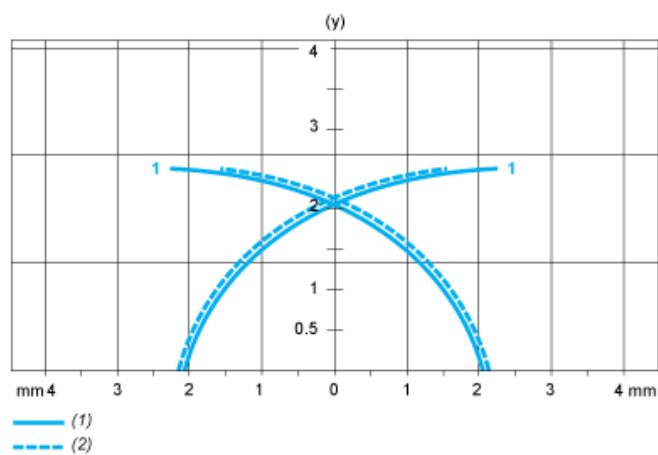


PNP



Performance Curves

Standard Steel Target (mm) : 8x8x1



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