# Product data sheet
## Characteristics

# XS512BSDAM12

inductive sensor XS5 M12 - L50mm - brass - Sn2mm - 12..24VDC - M12

Green Premium™

## Main

| | |
|---|---|
| Range of product | OsiSense XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Device application | - |
| Sensor name | XS5 |
| Sensor design | Cylindrical M12 |
| Size | 50 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 | 2 mm |
| Discrete output function | 1 NO |
| Output circuit type | DC |
| Electrical connection | 4 pins M12 male connector, pin assignment : 3-4 |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Switching capacity in mA | 1.5...100 mA DC with overload and short-circuit protection |
| IP degree of protection | IP67 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

| | |
|---|---|
| Thread type | M12 x 1 |
| Detection face | Frontal |
| Front material | PPS |
| Enclosure material | Nickel plated brass |
| Operating zone | 0…1.6 mm |

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| | |
|---|---|
| Differential travel | 1...15% of Sr |
| Status LED | Output state: 1 LED (yellow) |
| Supply voltage limits | 10…36 V DC |
| Maximum residual current | 0.5 mA open state |
| Switching frequency | <= 4000 Hz |
| Maximum voltage drop | <4 V (closed) |
| Maximum delay first up | 10 ms |
| Maximum delay response | 0.2 ms |
| Maximum delay recovery | 0.2 ms |
| Marking | CE |
| Threaded length | 30 mm |
| Height | 12 mm |
| Length | 50 mm |
| Net weight | 0.015 kg |

## Environment

| | |
|---|---|
| Product certifications | UL<br>CSA |
| 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 |

## 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)<br>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 |

# XS512BSDAM12

## Dimensions



(1)      LED

XS512BSDAM12
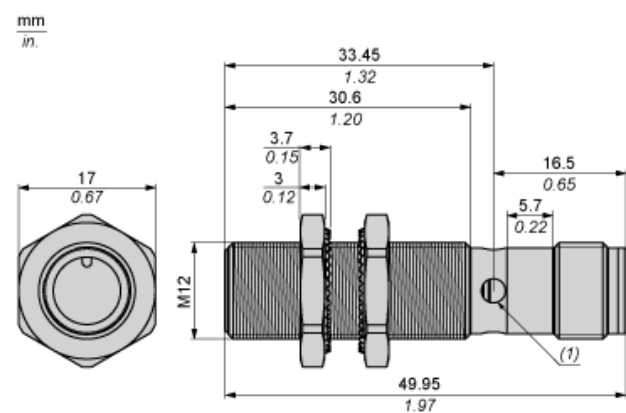
## Minimum Mounting Distances

Side by side
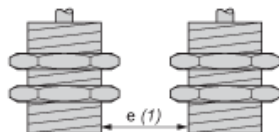
e (1) ≥    4 mm/0.16 in.

Face to face

e (2) ≥    24 mm/0.94 in.

Facing a metal object

e (3) ≥    6 mm/0.24 in.

# XS512BSDAM12

## Wiring Schemes

### 2-Wire Non-polarised
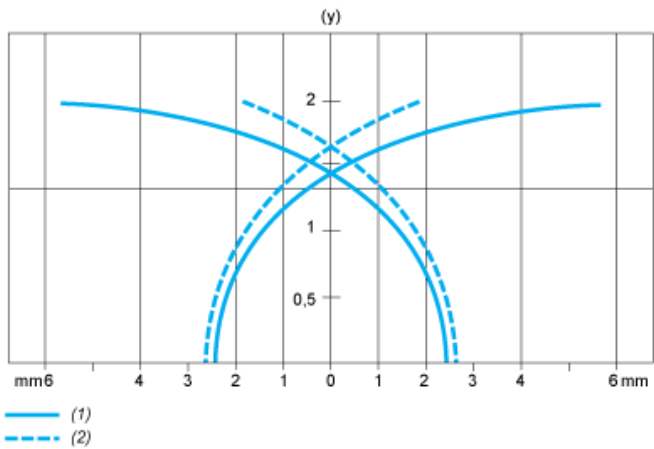
M12 connector

NO output

## XS512BSDAM12

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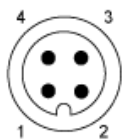
## Performance Curves

Standard Steel Target : 12x12x1 mm



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

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