# Product data sheet
## Characteristics

# XS512B1CAM12
## inductive sensor XS5 M12 - L62mm - brass - Sn2mm - 12..48VDC - M12



### 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 | 62 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 : 1-4 |
| [Us] rated supply voltage | 12...48 V DC |
| 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 |
| Differential travel | 1...15% of Sr |
| Status LED | Output state: 1 LED (yellow) |
| Supply voltage limits | 10…58 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 | 42 mm |
| Height | 18 mm |
| Length | 62 mm |
| Net weight | 0.035 kg |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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## Environment

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

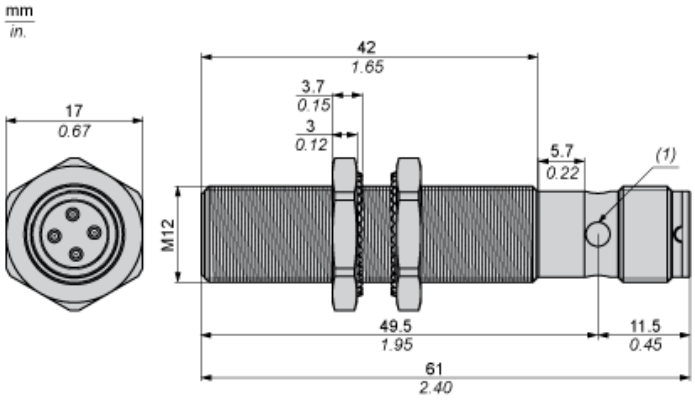
## Offer Sustainability

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

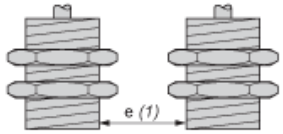



(1) LED

# XS512B1CAM12

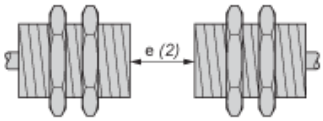
## Minimum Mounting Distances

Side by side



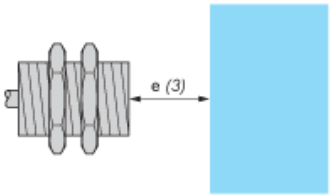

e (1) 4 mm/0.16 in.
≥

Face to face




e (2) 24 mm/0.94 in.
≥

Facing a metal object




e (3) 6 mm/0.24 in.
≥

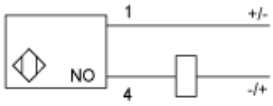
## Wiring Schemes

### 2-Wire Non-polarised

M12 connector

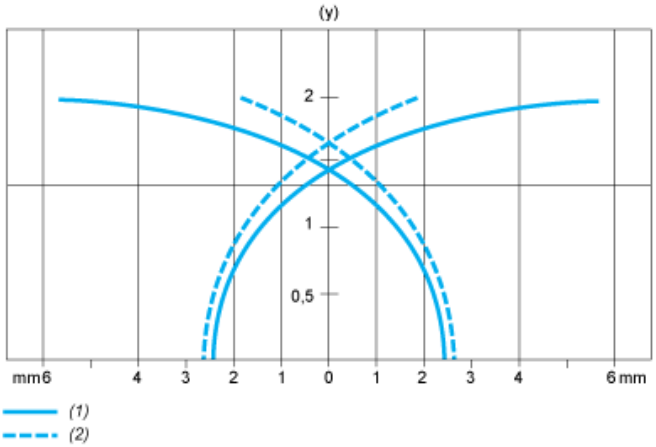



NO output



## 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