

XS1N12PC410L1

inductive sensor XS1 M12 - L33mm - brass -
Sn2mm - 12..24VDC - cable 5m



Product Life Status : **END OF STANDARD SERVICE**

TODAY
FEB 21, 2021

End of Commercialization
NOV 03, 2020

End of Standard Service
JAN 29, 2021



Main

| | |
|------------------------------------|------------------------------------------------------|
| Range of product | OsiSense XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Device application | Mobile equipment |
| Sensor name | XS1 |
| Sensor design | Cylindrical M12 |
| Size | 37 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Flush mountable |
| Material | Metal |
| Type of output signal | Discrete |
| Wiring technique | 4-wire |
| [Sn] nominal sensing distance | 2 mm |
| Discrete output function | 1 NO + 1 NC |
| Output circuit type | DC |
| Discrete output type | PNP |
| Electrical connection | Cable |
| Cable length | 5 m |
| [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 | IP68 conforming to IEC 60529 IP65 |

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Complementary

| | |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Safety level | SIL 2 conforming to EN/IEC 61508 PL = d conforming to EN/ISO 13849-1 SILCL 2 conforming to IEC 62061 |
| Safety reliability data | MTTFd = 1810 years PFHd = 62.9E-9 1/h SFF = 92 % DC = 74 % with appropriate safety controller |
| Service life | 20 year(s) |
| 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 |
| Cable composition | 4 x 0.22 mm ² |
| Wire insulation material | PvR |
| Status LED | Output state: 1 LED (yellow) |
| Supply voltage limits | 9...36 V DC |
| Switching frequency | <= 5000 Hz |
| Maximum voltage drop | <2 V (closed) |
| Current consumption | 0...10 mA no-load |
| Maximum delay first up | 5 ms |
| Maximum delay response | 0.1 ms |
| Maximum delay recovery | 0.1 ms |
| Marking | CE |
| Threaded length | 25 mm |
| Length | 37 mm |
| Net weight | 0.16 Kg 0.07 kg |




Environment


| | |
|---------------------------------------|-------------------------------------------------------------------------|
| Standards | EN/ISO 13849-1 IEC 62061 |
| Product certifications | UL E2 TÜV 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 |

Packing Units

| | |
|------------------|----------|
| Package 1 Weight | 0.174 kg |
| Package 1 Height | 0.800 dm |
| Package 1 width | 0.800 dm |
| Package 1 Length | 1.480 dm |

Offer Sustainability

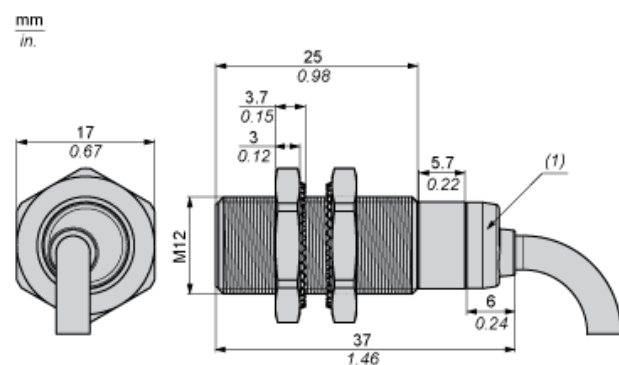
| | |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH 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 |
|----------|-----------|

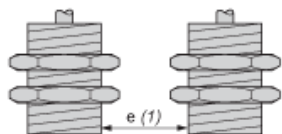
Dimensions



(1) LED

Minimum Mounting Distances

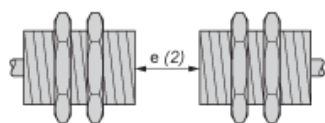
Side by side



e (1) 4 mm/0.16 in.

≥

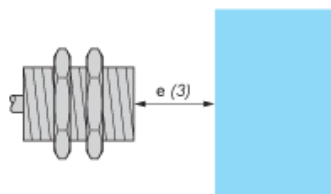
Face to face



e (2) 24 mm/0.94 in.

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Facing a metal object

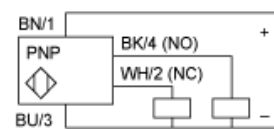


e (3) 6 mm/0.24 in.

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Wiring Schemes

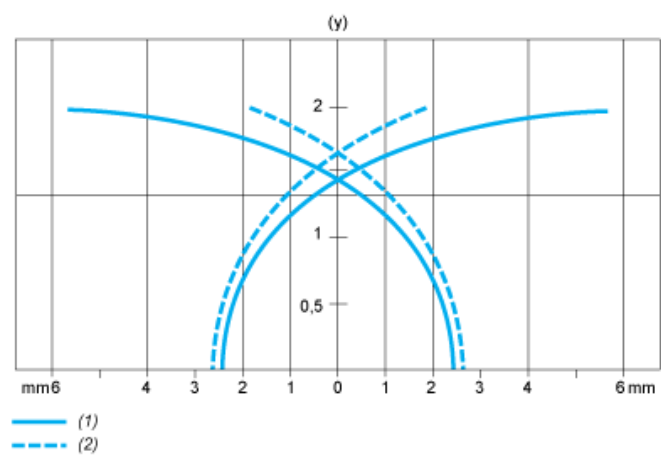
PNP 4-wire



BU : Blue
BN : Brown
BK : Black
WH : White

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