

# XS2M18KP340

inductive sensor XS2 M18 - L60mm - brass -  
Sn8mm - 12..24VDC - cable 2m



## Main

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Range of product                   | OsiSense XS                                          |
| Series name                        | General purpose                                      |
| Sensor type                        | Inductive proximity sensor                           |
| Sensor name                        | XS2                                                  |
| Sensor design                      | Cylindrical M18                                      |
| Size                               | 64 mm                                                |
| Body type                          | Fixed                                                |
| Detector flush mounting acceptance | Non flush mountable                                  |
| Material                           | Metal                                                |
| Type of output signal              | Discrete                                             |
| Wiring technique                   | 4-wire                                               |
| [Sn] nominal sensing distance      | 8 mm                                                 |
| Discrete output function           | 1 NO or 1 NC programmable                            |
| Output circuit type                | DC                                                   |
| Discrete output type               | PNP and NPN                                          |
| Electrical connection              | Cable                                                |
| Cable length                       | 2 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 double insulation conforming to IEC 60529       |

## Complementary

|                          |                              |
|--------------------------|------------------------------|
| Thread type              | M18 x 1                      |
| Detection face           | Frontal                      |
| Front material           | PPS                          |
| Enclosure material       | Nickel plated brass          |
| Operating zone           | 0...6.4 mm                   |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 4 x 0.22 mm <sup>2</sup>     |
| Wire insulation material | PvR                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...36 V DC                 |
| Switching frequency      | <= 2000 Hz                   |
| Maximum voltage drop     | <2.6 V (closed)              |
| Current consumption      | 0...10 mA no-load            |
| Maximum delay first up   | 5 ms                         |
| Maximum delay response   | 0.15 ms                      |
| Maximum delay recovery   | 0.35 ms                      |
| Marking                  | CE                           |
| Threaded length          | 44 mm                        |
| Length                   | 64 mm                        |
| Net weight               | 0.12 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                            |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 114 g    |
| Package 1 Height             | 5.3 cm   |
| Package 1 width              | 8.2 cm   |
| Package 1 Length             | 15.7 cm  |
| Unit Type of Package 2       | BAG      |
| Number of Units in Package 2 | 1        |
| Package 2 Weight             | 128 g    |
| Package 2 Height             | 1.8 cm   |
| Package 2 width              | 20 cm    |
| Package 2 Length             | 15 cm    |
| Unit Type of Package 3       | S03      |
| Number of Units in Package 3 | 44       |
| Package 3 Weight             | 5.449 kg |
| Package 3 Height             | 30 cm    |
| Package 3 width              | 30 cm    |
| Package 3 Length             | 40 cm    |

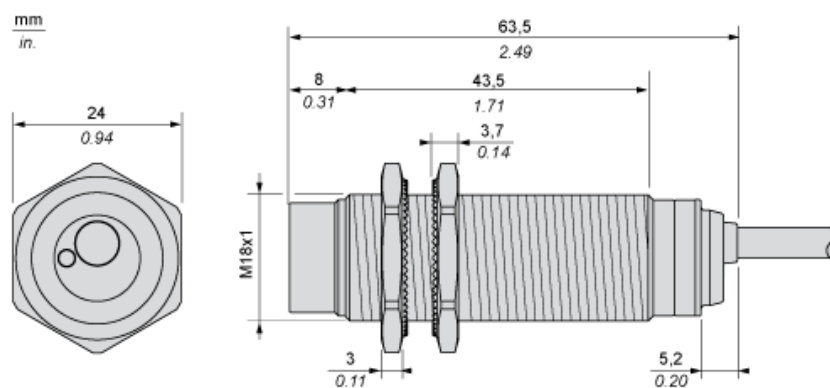
## Offer Sustainability

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                |
| REACH Regulation           | <a href="#"> REACH Declaration</a>                                                                |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#"> EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                                                                                                                  |
| RoHS exemption information | <a href="#"> Yes</a>                                                                              |
| Environmental Disclosure   | <a href="#"> Product Environmental Profile</a>                                                    |
| Circularity Profile        | <a href="#"> End of Life Information</a>                                                          |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



## Minimum Mounting Distances

Side by side



e (1) 32 mm/1.26 in.

≥

Face to face



e (2) 96 mm/3.78 in.

≥

Facing a metal object



e (3) 24 mm/0.94 in.

≥

Mounted in a metal support



d ≥ 56 mm/2.20 in.

h ≥ 16 mm/0.63 in.

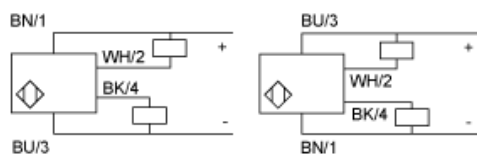
## Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

4-Wire DC, PNP/NPN, NO or NC Output



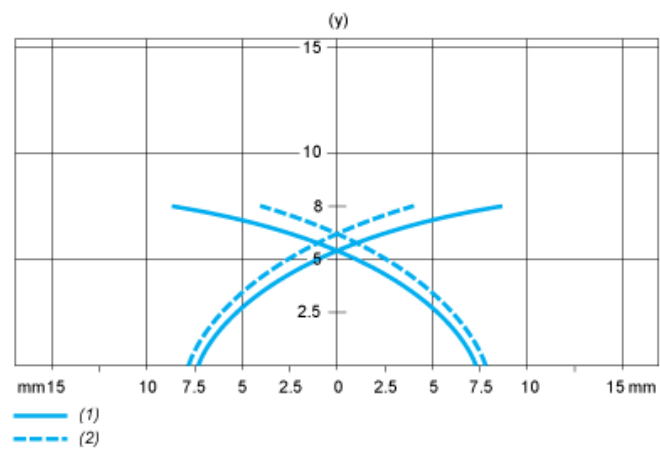
BU : Blue  
BN : Brown  
BK : Black  
WH : White

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Performance Curves

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Standard Steel Target : 24x24x1 mm



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