

# Product data sheet

Specifications



inductive sensor XS2 M12, L66mm,  
brass, Sn4mm, 12..24VDC, M12

XS2M12KP340D

## Main

|                                    |  |
|------------------------------------|--|
| Range of product                   | Telemecanique Inductive proximity sensors XS         |
| Series name                        | General purpose                                      |
| Sensor type                        | Inductive proximity sensor                           |
| Sensor name                        | XS2  |
| Sensor design                      | Cylindrical M12                                      |
| Size                               | 66 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      | 4 mm   |
| Discrete output function           | 1 NO or 1 NC programmable                            |
| Output circuit type                | DC   |
| Discrete output type               | PNP and NPN  |
| Electrical connection              | Male connector M12, 4 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            | IP67 conforming to IEC 60529                         |

## Complementary

|                     |                              |
|---------------------|------------------------------|
| Thread type         | M12 x 1                      |
| Detection face      | Frontal                      |
| Front material      | PPS                          |
| Enclosure material  | Nickel plated brass          |
| Operating zone      | 0...3.2 mm                   |
| Differential travel | 1...15% of Sr                |
| Status LED          | Output state: 1 LED (yellow) |

|                        |                      |
|------------------------|----------------------|
| Supply voltage limits  | 10...36 V DC         |
| Switching frequency    | <= 5000 Hz           |
| Maximum voltage drop   | <2.6 V (closed)      |
| Current consumption    | 0...10 mA no-load    |
| Maximum delay first up | 5 ms                 |
| Maximum delay response | 0.1 ms               |
| Maximum delay recovery | 0.1 ms               |
| Marking                | CE                   |
| Threaded length        | 42 mm                |
| Length                 | 66 mm                |
| Net weight             | 0.075 kg<br>0.025 kg |

## Environment

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

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | Db      |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 4.1 cm  |
| Package 1 Width              | 9.4 cm  |
| Package 1 Length             | 6.5 cm  |
| Package 1 Weight             | 30.6 g  |
| Unit Type of Package 2       | S01     |
| Number of Units in Package 2 | 22      |
| Package 2 Height             | 15.0 cm |
| Package 2 Width              | 15.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 871.0 g |

## Offer Sustainability

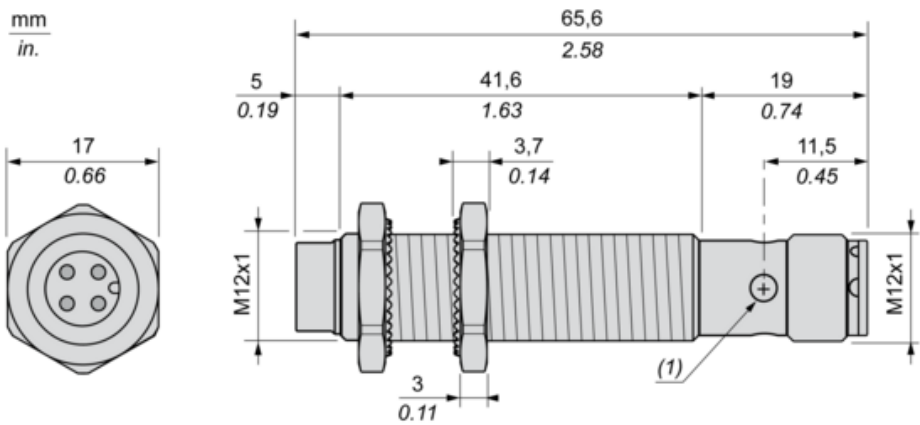
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU 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>   |

|                           |   |
|---------------------------|---|
| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
|---------------------------|---|

Contractual warranty

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

Dimensions



(1) : LED

Minimum Mounting Distances

Side by side



$e\ (1) \geq 16\text{ mm}/0.63\text{ in.}$

Face to face



$e\ (2) \geq 48\text{ mm}/1.89\text{ in.}$

Facing a metal object



$e\ (3) \geq 12\text{ mm}/0.47\text{ in.}$

Mounted in a metal support

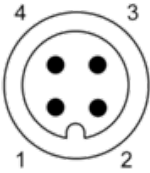


$d \geq 36\text{ mm}/1.42\text{ in.}$

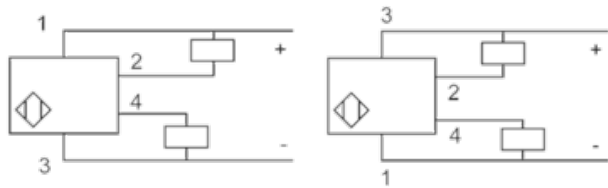
$h \geq 8\text{ mm}/0.31\text{ in.}$

Wiring Schemes

M12 Connector

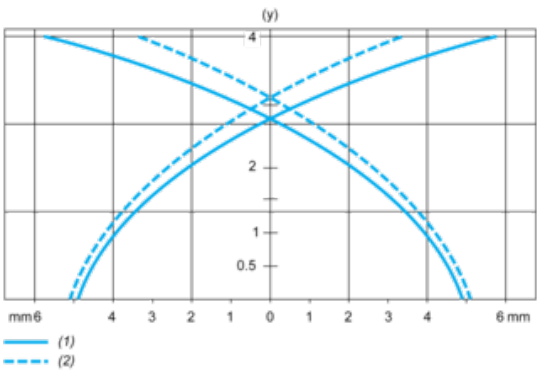


4-Wire DC, PNP/NPN, NO or NC output



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

Recommended replacement(s)