

# XS918R1PAM12

Inductive proximity sensors XS, inductive sensor XS9 M18, L64mm, full SS 303, Sn10 mm, 12...24 VDC, M12



## Main

|                               |                                                               |
|-------------------------------|---------------------------------------------------------------|
| Range of Product              | Telemecanique Inductive proximity sensors XS                  |
| Series name                   | Application                                                   |
| Sensor Type                   | Inductive proximity sensor                                    |
| Device Application            | Harsh environment application                                 |
| Sensor name                   | XS9                                                           |
| Sensor design                 | Cylindrical M18                                               |
| Size                          | 64 mm                                                         |
| Body type                     | Single piece body                                             |
| Enclosure Material            | Stainless steel 303                                           |
| Type of output signal         | Discrete                                                      |
| Wiring Technique              | 3-wire                                                        |
| [Sn] nominal sensing distance | 0.39 in (10 mm)                                               |
| Discrete output function      | 1 NO                                                          |
| Discrete output type          | PNP                                                           |
| Electrical connection         | Male connector M12, 4 pins                                    |
| [Us] rated supply voltage     | 12...24 V DC reverse polarity protection                      |
| Switching capacity in mA      | <= 200 mA overload and short-circuit protection               |
| IP degree of protection       | IP69K conforming to DIN 40050<br>IP68 conforming to IEC 60529 |

## Complementary

|                                    |                                |
|------------------------------------|--------------------------------|
| Thread type                        | M18 x 1                        |
| Detection face                     | Frontal                        |
| Detector flush mounting acceptance | Flush mountable                |
| Material                           | Stainless steel 303            |
| Front material                     | Stainless steel 303            |
| Sensing range                      | > 0.31...0.59 in (> 8...15 mm) |
| Operating zone                     | 0.00...0.31 in (0...8 mm)      |
| Differential travel                | 1...15 % of Sr                 |
| Repeat accuracy                    | <= 5 % of Sr                   |
| Output circuit type                | DC                             |
| Status LED                         | Output state 1 LED yellow)     |
| Supply voltage limits              | 10...30 V DC                   |
| Maximum residual current           | 0.1 mA open state              |
| Switching frequency                | <= 300 Hz                      |
| Maximum voltage drop               | <2 V closed)                   |
| Current consumption                | <= 10 mA no-load               |
| Maximum delay first up             | 40 ms                          |
| Maximum delay response             | 0.00006 ms                     |
| Maximum delay recovery             | 0.015 ms                       |
| Marking                            | CE                             |
| Threaded length                    | 1.65 in (42 mm)                |
| Height                             | 0.71 in (18 mm)                |

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|            |                        |
|------------|------------------------|
| Length     | 2.52 in (64 mm)        |
| Net Weight | 0.11 lb(US) (0.051 kg) |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Product Certifications                | cULus                                   |
| Ambient Air Temperature for Operation | -13...158 °F (-25...70 °C)              |
| Ambient Air Temperature for Storage   | -13...158 °F (-25...70 °C)              |
| Vibration resistance                  | 25 gn +/- 1 mm 10...55 Hz)IEC 60068-2-6 |
| Shock resistance                      | 30 gn 11 msIEC 60068-2-27               |

## Ordering and shipping details

|                       |                          |
|-----------------------|--------------------------|
| Category              | 22486-SENSORS, PROXIMITY |
| Discount Schedule     | DS2                      |
| GTIN                  | 3389119079068            |
| Nbr. of units in pkg. | 1                        |
| Package weight(Lbs)   | 2.19 oz (62.0 g)         |
| Returnability         | Yes                      |
| Country of origin     | HU                       |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 0.79 in (2 cm)         |
| Package 1 width              | 3.15 in (8 cm)         |
| Package 1 Length             | 5.12 in (13 cm)        |
| Unit Type of Package 2       | S01                    |
| Number of Units in Package 2 | 25                     |
| Package 2 Weight             | 3.87 lb(US) (1.756 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 5.91 in (15 cm)        |
| Package 2 Length             | 15.75 in (40 cm)       |

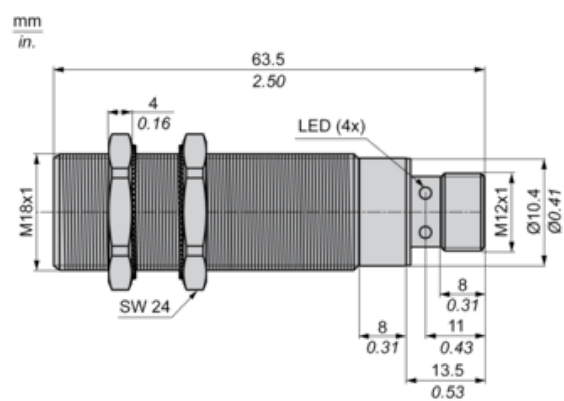
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> |
| 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>                                                                                                                                                                                                                                                                                                                                                               |

## Contractual warranty

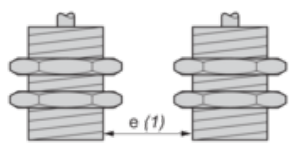
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



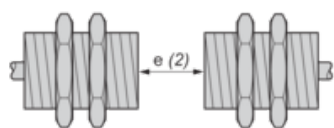
## Minimum Mounting Distances

Side by side



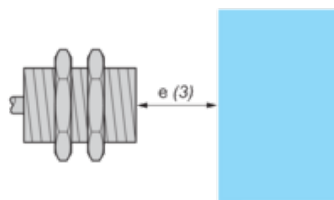
$e (1) \geq 42 \text{ mm}/1.65 \text{ in.}$

Face to face



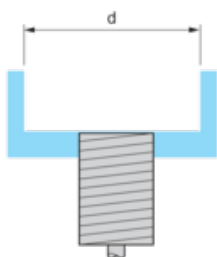
$e (2) \geq 40 \text{ mm}/1.57 \text{ in.}$

Facing a metal object



$e (3) \geq 30 \text{ mm}/1.18 \text{ in.}$

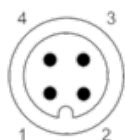
Mounted in a metal support



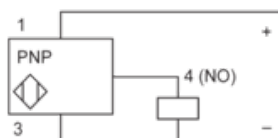
$d \geq 50 \text{ mm}/1.97 \text{ in.}$

## Wiring Schemes

M12 connector



PNP



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