

# XS908R1PAM12

Inductive proximity sensors XS, inductive sensor XS9 M8, L66mm, full SS 303, Sn3 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 M8                                                |
| Size                          | 66 mm                                                         |
| Body type                     | Single piece body                                             |
| Enclosure material            | Stainless steel 303                                           |
| Type of output signal         | Discrete                                                      |
| Wiring technique              | 3-wire                                                        |
| [Sn] nominal sensing distance | 3 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 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<br>IP69K conforming to DIN 40050 |

## Complementary

|                                    |                              |
|------------------------------------|------------------------------|
| Thread type                        | M8 x 1                       |
| Detection face                     | Frontal                      |
| Detector flush mounting acceptance | Flush mountable              |
| Material                           | Stainless steel 303          |
| Front material                     | Stainless steel 303          |
| Sensing range                      | > 2.5...4 mm                 |
| Operating zone                     | 0...2.4 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                | <= 1000 Hz                   |
| Maximum voltage drop               | <2 V (closed)                |
| Current consumption                | <= 10 mA no-load             |
| Maximum delay first up             | 40 ms                        |
| Maximum delay response             | 0.00005 ms                   |
| Maximum delay recovery             | 0.023 ms                     |
| Marking                            | CE                           |
| Threaded length                    | 46 mm                        |
| Height                             | 8 mm                         |

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. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|            |          |
|------------|----------|
| Length     | 66 mm    |
| Net weight | 0.015 kg |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CULus                                                                   |
| Ambient air temperature for operation | -25...70 °C                                                             |
| Ambient air temperature for storage   | -25...70 °C                                                             |
| Vibration resistance                  | 25 gn amplitude = +/- 1 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 30 gn for 11 ms conforming to IEC 60068-2-27                            |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.024 kg |
| Package 1 Height | 2.140 dm |
| Package 1 width  | 0.800 dm |
| Package 1 Length | 1.800 dm |

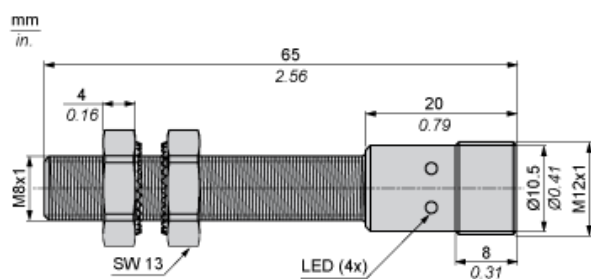
## Offer Sustainability

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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



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Minimum Mounting Distances in mm

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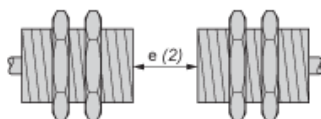
Side by side



e (1) 14 mm/0.55 in.

≥

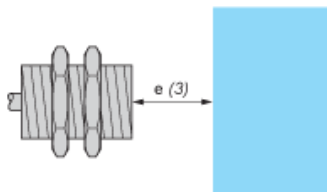
Face to face



e (2) 15 mm/0.59 in.

≥

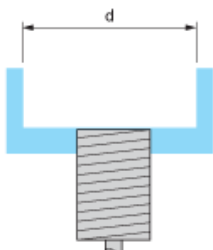
Facing a metal object



e (3) 10 mm/0.39 in.

≥

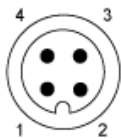
Mounted in a metal support



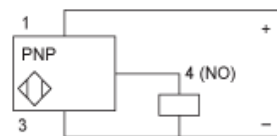
d ≥ 12 mm/0.47 in.

## Wiring Schemes

M12 connector



PNP



- 1 : (+)
- 2 : Not connected
- 3 : (-)
- 4 : NO Output