

# XS918S4PAM12

inductive sensor XS9 M18 - L64mm - full SS  
316L - Sn20 mm - 12..24VDC - M12



## Main

|                               |                                                               |
|-------------------------------|---------------------------------------------------------------|
| Range of product              | OsiSense XS                                                   |
| Series name                   | Application                                                   |
| Sensor type                   | Inductive proximity sensor                                    |
| Device application            | Food and beverage                                             |
| Market segment                | Pharmaceutical                                                |
| Sensor name                   | XS9                                                           |
| Sensor design                 | Cylindrical M18                                               |
| Size                          | 64 mm                                                         |
| Body type                     | Single piece body                                             |
| Enclosure material            | Stainless steel 316L                                          |
| Type of output signal         | Discrete                                                      |
| Wiring technique              | 3-wire                                                        |
| [Sn] nominal sensing distance | 20 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       | IP69K conforming to DIN 40050<br>IP68 conforming to IEC 60529 |

## Complementary

|                                    |                              |
|------------------------------------|------------------------------|
| Thread type                        | M18 x 1                      |
| Detection face                     | Frontal                      |
| Detector flush mounting acceptance | Non flush mountable          |
| Material                           | Stainless steel 316L         |
| Front material                     | Stainless steel 316L         |
| Sensing range                      | > 15...40 mm                 |
| Operating zone                     | 0...16 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                | <= 200 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                    | 35 mm                        |
| Height                             | 18 mm                        |

|            |          |
|------------|----------|
| Length     | 64 mm    |
| Net weight | 0.051 kg |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CULus<br>Ecolab                                                         |
| Ambient air temperature for operation | -25...85 °C                                                             |
| Ambient air temperature for storage   | -25...85 °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 | 0.064 kg |
| Package 1 Height | 0.180 dm |
| Package 1 width  | 2.100 dm |
| Package 1 Length | 1.900 dm |

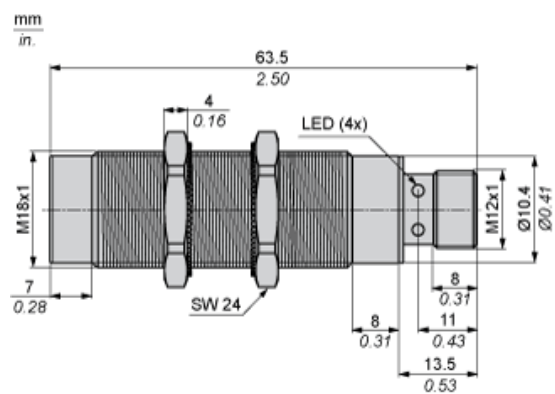
## Offer Sustainability

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |  Yes                                                                                              |

## Contractual warranty

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

## Dimensions



### Minimum Mounting Distances

Side by side



e (1) 182 mm/7.16 in.

≥

Face to face



e (2) 70 mm/2.75 in.

≥

Facing a metal object



e (3) 60 mm/2.36 in.

≥

Mounted in a metal support



d ≥ 60 mm/2.36 in

h ≥ 34 mm/1.34 in

## Wiring Schemes

M12 connector



PNP

