

# XS618B1NAL01B

inductive sensor XS6 M18 - L62mm - brass -  
Sn8mm - 12..48VDC - term. 0.15m



Product Life Status : **END OF STANDARD SERVICE**

TODAY  
FEB 21, 2021

End of Commercialization  
NOV 03, 2020

End of Standard Service  
JAN 29, 2021



## Main

|                                    |                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------|
| Range of product                   | OsiSense XS                                                                     |
| Series name                        | General purpose                                                                 |
| Sensor type                        | Inductive proximity sensor                                                      |
| Device application                 | Mobile equipment                                                                |
| Sensor name                        | XS6                                                                             |
| Sensor design                      | Cylindrical M18                                                                 |
| Size                               | 62 mm                                                                           |
| Body type                          | Fixed                                                                           |
| Detector flush mounting acceptance | Flush mountable                                                                 |
| Material                           | Metal                                                                           |
| Type of output signal              | Discrete                                                                        |
| Wiring technique                   | 3-wire                                                                          |
| [Sn] nominal sensing distance      | 8 mm                                                                            |
| Discrete output function           | 1 NO                                                                            |
| Output circuit type                | DC                                                                              |
| Discrete output type               | NPN                                                                             |
| Electrical connection              | Remote male connector screw-clamp terminals                                     |
| Cable length                       | 0.15 m                                                                          |
| [Us] rated supply voltage          | 12...48 V DC with reverse polarity protection                                   |
| Switching capacity in mA           | <= 200 mA DC with overload and short-circuit protection                         |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

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## Complementary

|                    |                     |
|--------------------|---------------------|
| Thread type        | M18 x 1             |
| Detection face     | Frontal             |
| Front material     | PPS                 |
| Enclosure material | Nickel plated brass |
| Sensing range      | > 4...8 mm          |
| Operating zone     | 0...6.4 mm          |

|                          |                              |
|--------------------------|------------------------------|
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>     |
| Wire insulation material | PvR                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...58 V DC                 |
| Switching frequency      | <= 1000 Hz DC                |
| Maximum voltage drop     | <2 V (closed)                |
| Current consumption      | <= 10 mA no-load             |
| Maximum delay first up   | 10 ms                        |
| Maximum delay response   | 0.3 ms                       |
| Maximum delay recovery   | 0.7 ms                       |
| Marking                  | CE                           |
| Threaded length          | 52 mm                        |
| Length                   | 62 mm                        |
| Net weight               | 0.15 kg                      |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | E2                                                                      |
| 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             | 110 g   |
| Package 1 Height             | 4.2 cm  |
| Package 1 width              | 9.7 cm  |
| Package 1 Length             | 13.2 cm |

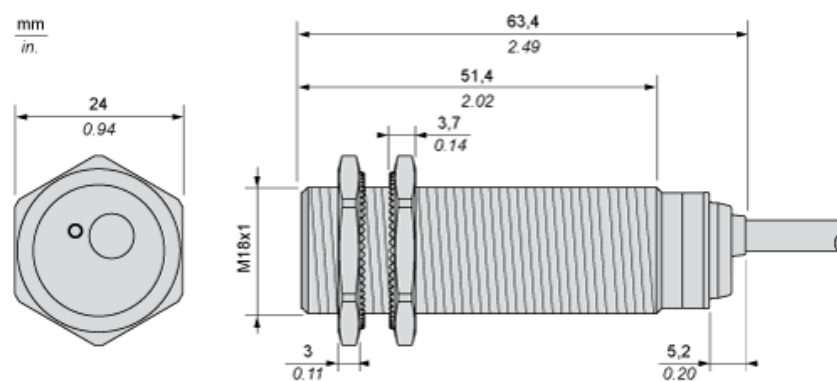
## Offer Sustainability

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

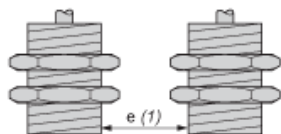


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### Minimum Mounting Distances

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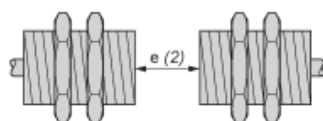
Side by side



e (1) 16 mm/0.63 in.

≥

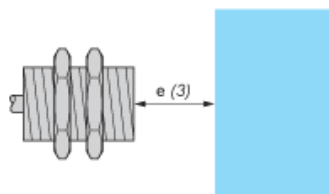
Face to face



e (2) 100 mm/3.94 in.

≥

Facing a metal object



e (3) 25 mm/0.98 in

≥

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## Wiring Schemes

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### Screw Terminal

The terminal numbering differs according to the version (2-wire DC, 3-wire DC, 2-wire AC).

