

# XS618B4PAM12

Inductive proximity sensors XS, inductive sensor XS6 M18, L72mm, brass, Sn12mm, 12...48 VDC, M12



## Main

|                                    |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Range of Product                   | Telemecanique Inductive proximity sensors XS                  |
| Series name                        | General purpose                                               |
| Sensor Type                        | Inductive proximity sensor                                    |
| Device Application                 | Mobile equipment                                              |
| Sensor name                        | XS6                                                           |
| Sensor design                      | Cylindrical M18                                               |
| Size                               | 72 mm                                                         |
| Body type                          | Fixed                                                         |
| Detector flush mounting acceptance | Non flush mountable                                           |
| Material                           | Metal                                                         |
| Type of output signal              | Discrete                                                      |
| Wiring Technique                   | 3-wire                                                        |
| [Sn] nominal sensing distance      | 0.47 in (12 mm)                                               |
| Discrete output function           | 1 NO                                                          |
| Output circuit type                | DC                                                            |
| Discrete output type               | PNP                                                           |
| Electrical connection              | Male connector M12, 4 pins                                    |
| [Us] rated supply voltage          | 12...48 V DC reverse polarity protection                      |
| Switching capacity in mA           | <= 200 mA DC overload and short-circuit protection            |
| IP degree of protection            | IP67 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                        |                                |
|------------------------|--------------------------------|
| Thread type            | M18 x 1                        |
| Detection face         | Frontal                        |
| Front material         | PPS                            |
| Enclosure Material     | Nickel Plated Brass            |
| Sensing range          | > 0.31...0.59 in (> 8...15 mm) |
| Operating zone         | 0.00...0.38 in (0...9.6 mm)    |
| Differential travel    | 1...15% of Sr                  |
| 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        | 1.73 in (44 mm)                |
| Length                 | 2.83 in (72 mm)                |
| Net Weight             | 0.09 lb(US) (0.04 kg)          |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Product Certifications                | UL<br>E2<br>CSA                         |
| Ambient Air Temperature for Operation | -13...158 °F (-25...70 °C)              |
| Ambient Air Temperature for Storage   | -40...185 °F (-40...85 °C)              |
| Vibration resistance                  | 25 gn +/- 2 mm 10...55 Hz)IEC 60068-2-6 |
| Shock resistance                      | 50 gn 11 ms IEC 60068-2-27              |

## Ordering and shipping details

|                       |                          |
|-----------------------|--------------------------|
| Category              | 22486-SENSORS, PROXIMITY |
| Discount Schedule     | DS2                      |
| GTIN                  | 3389119113892            |
| Nbr. of units in pkg. | 1                        |
| Package weight(Lbs)   | 2.08 oz (59.0 g)         |
| Returnability         | Yes                      |
| Country of origin     | FR                       |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 1.65 in (4.2 cm)       |
| Package 1 width              | 2.56 in (6.5 cm)       |
| Package 1 Length             | 3.74 in (9.5 cm)       |
| Unit Type of Package 2       | S01                    |
| Number of Units in Package 2 | 22                     |
| Package 2 Weight             | 3.25 lb(US) (1.474 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)       |

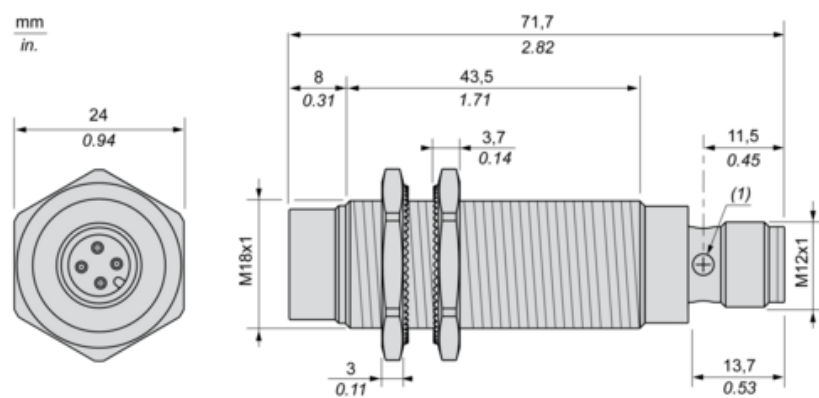
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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>                                                                                                                                                                                                                                                                                                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                                     |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                                                                                                           |

## Contractual warranty

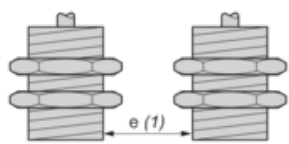
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



## Minimum Mounting Distances

Side by side



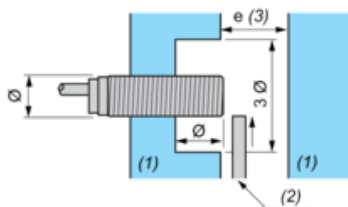
$e (1) \geq 72 \text{ mm}/2.83 \text{ in.}$

Face to face



$e (2) \geq 144 \text{ mm}/5.67 \text{ in.}$

Facing a metal object



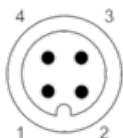
$e (3) \geq 36 \text{ mm}/1.42 \text{ in}$

(1) Metal

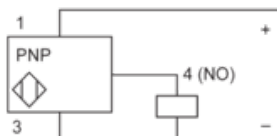
(2) Object to be detected

## Wiring Schemes

M12 connector



PNP



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Telemecanique Sensors:](#)

[XS618B4PAM12](#)