

# XS508B1PBM8

Inductive proximity sensors XS, inductive sensor XS5 M8, L42mm, stainless, Sn1.5 mm, 12...24 VDC, M8



## Main

|                                    |                                                    |
|------------------------------------|----------------------------------------------------|
| Range of Product                   | Telemecanique Inductive proximity sensors XS       |
| Series name                        | General purpose                                    |
| Sensor Type                        | Inductive proximity sensor                         |
| Device Application                 | -                                                  |
| Sensor name                        | XS5                                                |
| Sensor design                      | Cylindrical M8                                     |
| Size                               | 42 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      | 0.06 in (1.5 mm)                                   |
| Discrete output function           | 1 NC                                               |
| Output circuit type                | DC                                                 |
| Discrete output type               | PNP                                                |
| Electrical connection              | Male connector M8, 3 pins                          |
| [Us] rated supply voltage          | 12...24 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                       |

## Complementary

|                        |                             |
|------------------------|-----------------------------|
| Thread type            | M8 x 1                      |
| Detection face         | Frontal                     |
| Front material         | PPS                         |
| Enclosure Material     | Stainless steel 303         |
| Operating zone         | 0.00...0.05 in (0...1.2 mm) |
| Differential travel    | 1...15% of Sr               |
| Status LED             | Output state 1 LED yellow)  |
| Supply voltage limits  | 10...36 V DC                |
| Switching frequency    | <= 5000 Hz                  |
| Maximum voltage drop   | <2 V closed)                |
| Current consumption    | <= 10 mA no-load            |
| Maximum delay first up | 10 ms                       |
| Maximum delay response | 0.1 ms                      |
| Maximum delay recovery | 0.1 ms                      |
| Marking                | CE                          |
| Threaded length        | 1.02 in (26 mm)             |
| Length                 | 1.65 in (42 mm)             |
| Product Weight         | 0.06 lb(US) (0.025 kg)      |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Product Certifications                | CSA<br>UL                               |
| 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              | 3389110143720            |
| Returnability     | No                       |
| Country of origin | FR                       |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 0.39 in (1.0 cm)       |
| Package 1 Width              | 0.79 in (2.0 cm)       |
| Package 1 Length             | 3.54 in (9.0 cm)       |
| Package 1 Weight             | 0.63 oz (18.0 g)       |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 44                     |
| Package 2 Height             | 5.91 in (15.0 cm)      |
| Package 2 Width              | 11.81 in (30.0 cm)     |
| Package 2 Length             | 15.75 in (40.0 cm)     |
| Package 2 Weight             | 2.54 lb(US) (1.154 kg) |

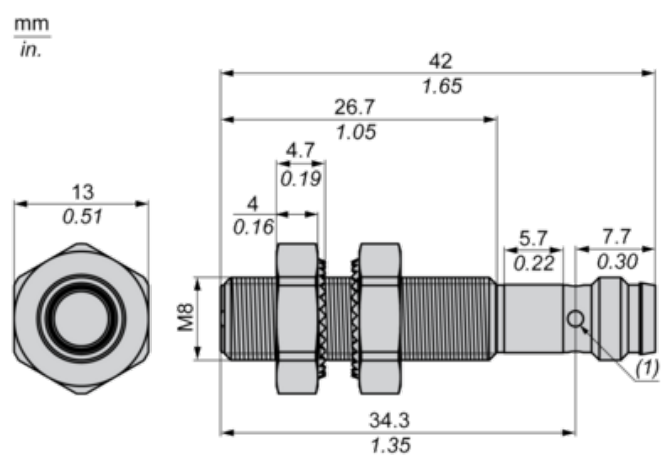
## Offer Sustainability

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



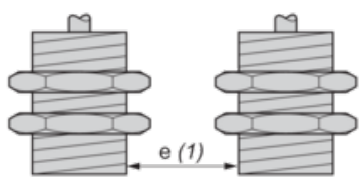
(1) LED

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Minimum Mounting Distances

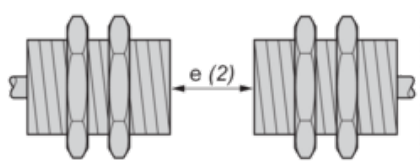
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Side by side



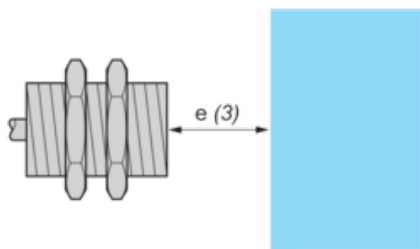
$e (1) \geq 3 \text{ mm}/0.12 \text{ in.}$

Face to face



$e (2) \geq 18 \text{ mm}/0.71 \text{ in.}$

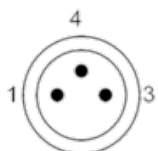
Facing a metal object



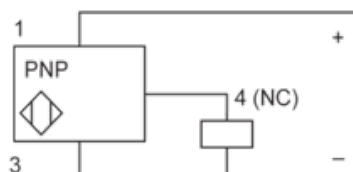
$e (3) \geq 4.5 \text{ mm}/0.18 \text{ in.}$

## Wiring Schemes

M8 Connector

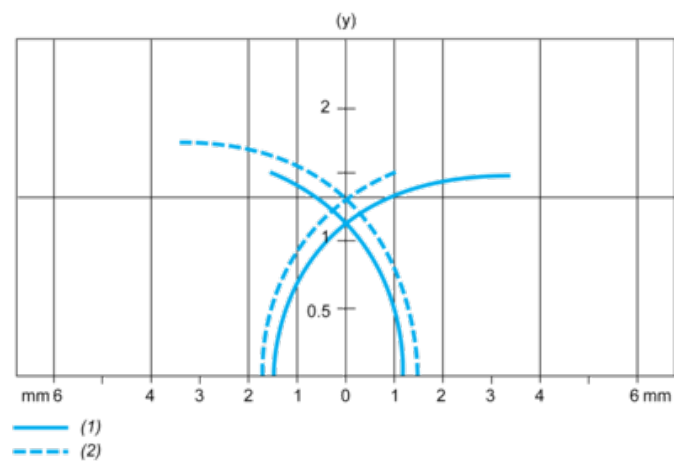


PNP



## Performance Curves

Standard Steel Target : 8x8x1 mm



(1) Pick-up points

(2) Drop-out points (object approaching from the side)

(y) Sensing distance in mm