## Product data sheet Characteristics

## XS508B1PBL2

inductive sensor XS5 M8 - L33mm - stainless -Sn1.5mm - 12..24VDC - cable 2m





#### Main

|                                    |   | S  |
|------------------------------------|---|--|
|                                    |   | icatio   |
|                                    |   |  |
|                                    |   |  |
| Main                               |   | substitute for and is nortro be used for determining a suitability of these products for specific user applications  |
| Range of product                   | OsiSense XS   |  |
| Series name                        | General purpose   |  |
| Sensor type                        | Inductive proximity sensor                              |  |
| Device application                 | -   |  |
| Sensor name                        | XS5   |  |
| Sensor design                      | Cylindrical M8  |  |
| Size                               | 33 mm   | <u>م</u><br>۲  |
| Body type                          | Fixed   |  |
| Detector flush mounting acceptance | Flush mountable   |  |
| Material                           | Metal   |  |
| Type of output signal              | Discrete  |  |
| Wiring technique                   | 3-wire  | e<br>0   |
| [Sn] nominal sensing distance      | 1.5 mm  |  |
| Discrete output function           | 1 NC  | ta<br>1  |
| Output circuit type                | DC  | <u></u>  |
| Discrete output type               | PNP   |  |
| Electrical connection              | Cable   | tit<br>tit<br>tit  |
| Cable length                       | 2 m   |  |
| [Us] rated supply voltage          | 1224 V DC with reverse polarity protection              | ບ<br>ກ<br>ນ  |
| Switching capacity in mA           | <= 200 mA DC with overload and short-circuit protection | s a a a long to the second sec |
| IP degree of protection            | IP67 conforming to IEC 60529                            |  |

#### Complementary

|                    |                     | ter en |
|--------------------|---------------------|--|
| Complementary      |                     | tation is                                  |
| Thread type        | M8 x 1              |  |
| Detection face     | Frontal             |  |
| Front material     | PPS                 | Ē  |
| Enclosure material | Nickel plated brass |  |
|                    |                     |  |



| Operating zone           | 01.2 mm                         |
|--------------------------|---------------------------------|
| Differential travel      | 115% of Sr                      |
| Cable composition        | 3 x 0.11 mm <sup>2</sup>        |
| Wire insulation material | PvR                             |
| Status LED               | 1 LED (yellow) for output state |
| Supply voltage limits    | 1036 V DC                       |
| Switching frequency      | <= 5000 Hz                      |
| Voltage drop             | <= 2 V, closed state            |
| Current consumption      | <= 10 mA (no-load)              |
| Delay first up           | <= 10 ms                        |
| Delay response           | <= 0.1 ms                       |
| Delay recovery           | <= 0.1 ms                       |
| Marking                  | CE                              |
| Threaded length          | 25 mm                           |
| Height                   | 8 mm                            |
| Length                   | 33 mm                           |
| Product weight           | 0.035 kg                        |

#### Environment

| Product certifications                | CSA<br>UL  |  |
|---------------------------------------|--|--|
| Ambient air temperature for operation | -2570 °C   |  |
| Ambient air temperature for storage   | -4085 °C   |  |
| Vibration resistance                  | 25 gn, amplitude: +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 |  |
| Shock resistance                      | 50 gn (duration = 11 ms) conforming to IEC 60068-2-27                |  |

### Offer Sustainability

| Sustainable offer status Green Premium product  |  |  |
|---|--|--|
| RoHS (date code: YYWW) Compliant - since 1010 - Schneider Electric declaration of conformity   Schneider Electric declaration of conformity |  |  |
| REACh   | Reference not containing SVHC above the threshold<br>Reference not containing SVHC above the threshold |  |
| Product environmental profile   | Available<br>End of Life Information   |  |
| Product end of life instructions  | Available  |  |

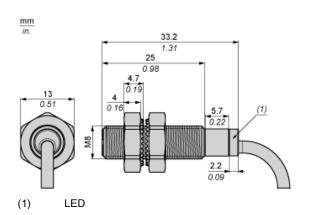
#### Contractual warranty

| Warranty period 18 months | Contractaal Wallanty |  |  |  |
|---------------------------|----------------------|--|--|--|
|                           |                      |  |  |  |

Product data sheet Dimensions Drawings

## XS508B1PBL2

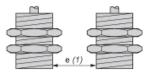
#### Dimensions



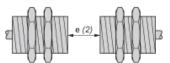
## XS508B1PBL2

### Minimum Mounting Distances

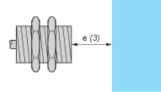
Side by side



 $e(1) \ge 3 \text{ mm/0.12 in.}$ Face to face



 $e(2) \ge 18 \text{ mm/0.71 in.}$ Facing a metal object

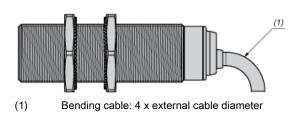


e (3) ≥ 4.5 mm/0.18 in.

Product data sheet Mounting and Clearance

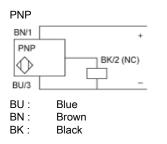
# XS508B1PBL2

### Mounting



# XS508B1PBL2

### Wiring Schemes

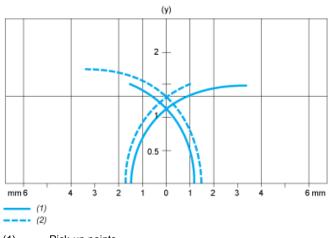


Product data sheet Performance Curves

## XS508B1PBL2

#### **Performance Curves**

### Standard Steel Target : 8x8x1 mm



- (1) Pick-up points
- Drop-out points (object approaching from the side)
- (2) (y) Sensing distance in mm