

# XS218BLPAL2

inductive sensor XS2 M18, L53mm, brass,  
Sn8mm, 12..24VDC, cable 2m



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Telemecanique Inductive proximity sensors XS         |
| Series name                   | General purpose                                      |
| Sensor type                   | Inductive proximity sensor                           |
| Sensor name                   | XS2  |
| Sensor design                 | Cylindrical M18                                      |
| Size                          | 53 mm  |
| Body type                     | Fixed  |
| Enclosure material            | Nickel plated brass                                  |
| Type of output signal         | Discrete   |
| Wiring technique              | 3-wire   |
| [Sn] nominal sensing distance | 8 mm   |
| Discrete output function      | 1 NO   |
| Discrete output type          | PNP  |
| Electrical connection         | Cable  |
| Cable length                  | 2 m  |
| [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       | IP67 conforming to IEC 60529                         |

## Complementary

|                                    |                              |
|------------------------------------|------------------------------|
| ISO thread                         | M18 x 1                      |
| Detection face                     | Frontal                      |
| Detector flush mounting acceptance | Non flush mountable          |
| Material                           | Metal                        |
| Front material                     | PBT                          |
| Operating zone                     | 0...6.4 mm                   |
| Differential travel                | 1...15% of Sr                |
| Output circuit type                | DC                           |
| Cable composition                  | 3 x 0.14 mm <sup>2</sup>     |
| Wire insulation material           | PVC                          |
| Status LED                         | Output state: 1 LED (yellow) |
| Supply voltage limits              | 10...36 V DC                 |
| Switching frequency                | <= 500 Hz                    |
| Maximum voltage drop               | <2 V (closed)                |
| Current consumption                | <= 10 mA no-load             |
| Maximum delay first up             | 15 ms                        |
| Maximum delay response             | 0.1 ms                       |
| Maximum delay recovery             | 1 ms                         |
| Marking                            | CE                           |
| Threaded length                    | 33 mm                        |
| Length                             | 53 mm                        |
| Net weight                         | 0.105 kg                     |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | CSA[RETURN]UL   |
| 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 Height             | 2.500 cm  |
| Package 1 Width              | 11.300 cm |
| Package 1 Length             | 15.400 cm |
| Package 1 Weight             | 96.000 g  |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 36        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 3.978 kg  |

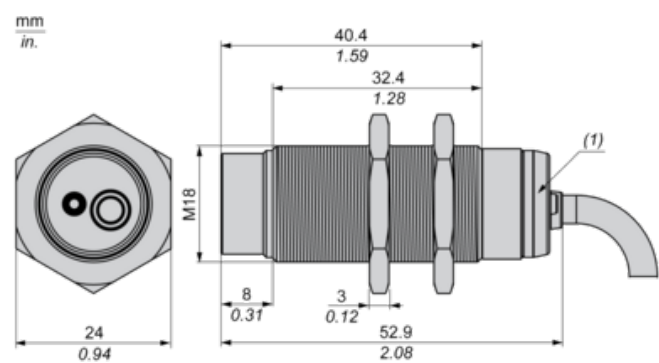
## Offer Sustainability

|  |   |
|--|---|
| Sustainable offer status                   | Green Premium product   |
| Circularity Profile                        |  <a href="#">End of Life Information</a>   |
| 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>  |

## Contractual warranty

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

## Dimensions



(1) LED

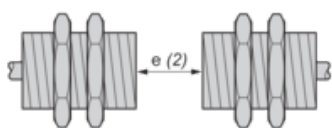
## Minimum Mounting Distances

Side by side



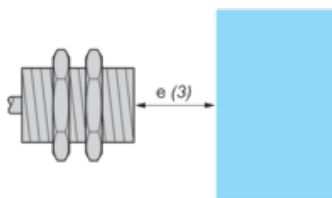
$e (1) \geq 32 \text{ mm}/1.26 \text{ in.}$

Face to face



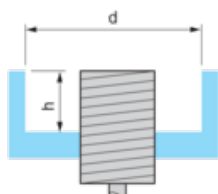
$e (2) \geq 96 \text{ mm}/3.78 \text{ in.}$

Facing a metal object



$e (3) \geq 24 \text{ mm}/0.94 \text{ in.}$

Mounted in a metal support



$d \geq 56 \text{ mm}/2.20 \text{ in.}$

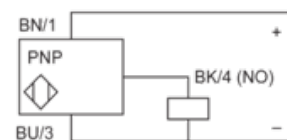
$h \geq 16 \text{ mm}/0.63 \text{ in.}$

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## Wiring Schemes

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PNP



BU : Blue

BN : Brown

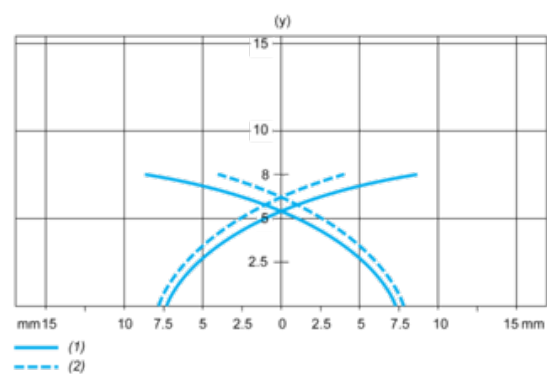
BK : Black

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Performance Curves

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Standard Steel Target : 24x24x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm