

# XS118BLNAL5

inductive sensor XS1 M18, L53mm, brass,  
Sn5mm, 12..24VDC, cable 5m



## Main

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Range of product              | Telemecanique Inductive proximity sensors XS         |
| Series name                   | General purpose                                      |
| Sensor type                   | Inductive proximity sensor                           |
| Sensor name                   | XS1                                                  |
| 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 | 5 mm                                                 |
| Discrete output function      | 1 NO                                                 |
| Discrete output type          | NPN                                                  |
| Electrical connection         | Cable                                                |
| Cable length                  | 5 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 | Flush mountable              |
| Material                           | Metal                        |
| Front material                     | PBT                          |
| Operating zone                     | 0...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                | <= 1200 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             | 0.3 ms                       |
| Marking                            | CE                           |
| Threaded length                    | 41 mm                        |
| Length                             | 53 mm                        |
| Net weight                         | 0.225 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                            |

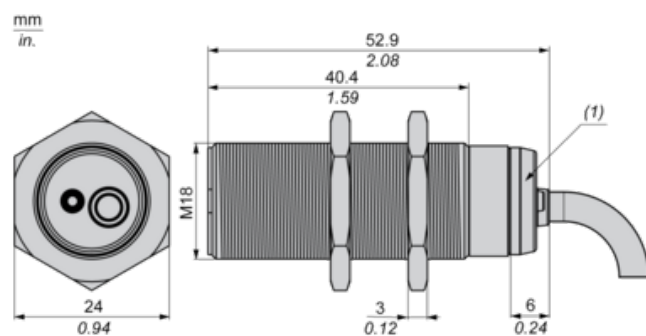
## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 6.6 cm   |
| Package 1 Width              | 9.7 cm   |
| Package 1 Length             | 13.2 cm  |
| Package 1 Weight             | 255.0 g  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 10       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 3.005 kg |

## Contractual warranty

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

## Dimensions



(1) LED

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### Minimum Mounting Distances

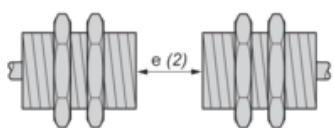
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Side by side



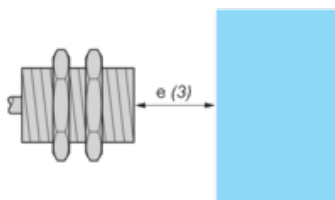
$e (1) \geq 10 \text{ mm}/0.39 \text{ in.}$

Face to face



$e (2) \geq 60 \text{ mm}/2.36 \text{ in.}$

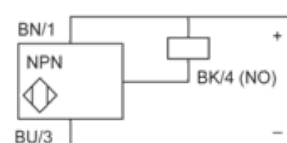
Facing a metal object



$e (3) \geq 15 \text{ mm}/0.60 \text{ in}$

## Wiring Schemes

NPN



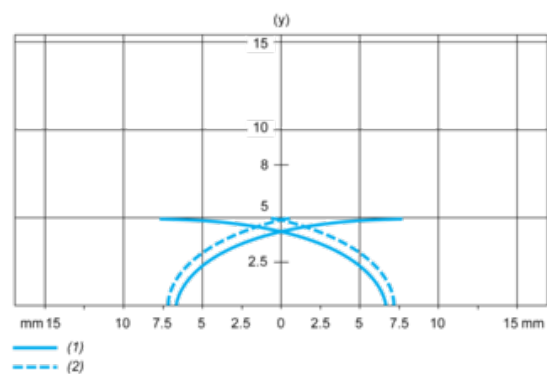
BU : Blue

BN : Brown

BK : Black

## Performance Curves

Standard Steel Target : 18x18x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm