

# XS212BLPAL5

Inductive proximity sensors XS, inductive sensor XS2 M12, L44mm, brass, Sn4mm, 12...24 VDC, cable 5 m



## Main

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Range of product              | Telemecanique Inductive proximity sensors XS         |
| Series name                   | General purpose                                      |
| Sensor type                   | Inductive proximity sensor                           |
| Sensor name                   | XS2                                                  |
| Sensor design                 | Cylindrical M12                                      |
| Size                          | 44 mm                                                |
| Body type                     | Fixed                                                |
| Enclosure material            | Nickel plated brass                                  |
| Type of output signal         | Discrete                                             |
| Wiring technique              | 3-wire                                               |
| [Sn] nominal sensing distance | 4 mm                                                 |
| Discrete output function      | 1 NO                                                 |
| Discrete output type          | PNP                                                  |
| 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                         | M12 x 1                      |
| Detection face                     | Frontal                      |
| Detector flush mounting acceptance | Non flush mountable          |
| Material                           | Metal                        |
| Front material                     | PBT                          |
| Operating zone                     | 0...3.2 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             | 0.15 ms                      |
| Maximum delay recovery             | 0.4 ms                       |
| Marking                            | CE                           |
| Threaded length                    | 26 mm                        |
| Length                             | 44 mm                        |
| Net weight                         | 0.19 kg                      |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | UL<br>CSA                                                               |
| 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 Weight             | 139 g   |
| Package 1 Height             | 3 cm    |
| Package 1 width              | 10.5 cm |
| Package 1 Length             | 12.5 cm |

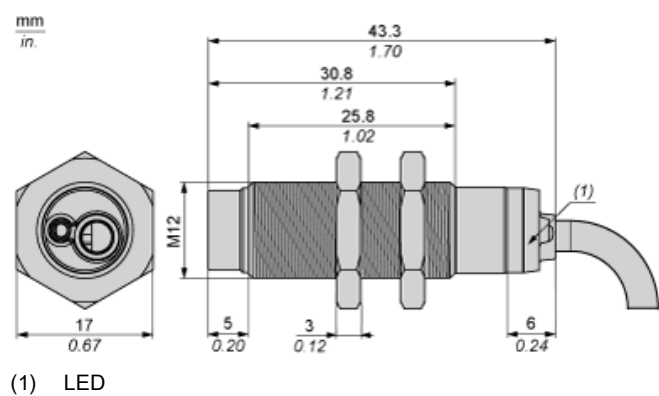
## Offer Sustainability

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                          |
| 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

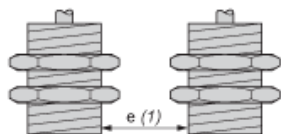
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



### Minimum Mounting Distances

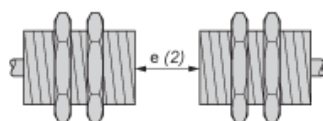
Side by side



e (1) 16 mm/0.63 in.

≥

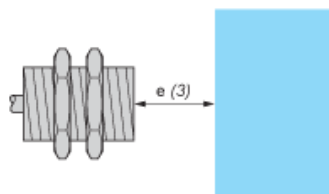
Face to face



e (2) 48 mm/1.89 in.

≥

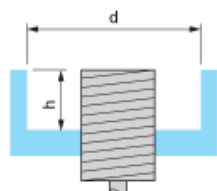
Facing a metal object



e (3) 12 mm/0.47 in.

≥

Mounted in a metal support

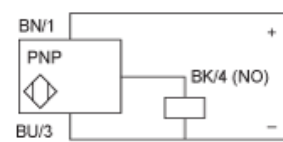


d ≥ 36 mm/1.42 in.

h ≥ 8 mm/0.31 in.

## Wiring Schemes

PNP



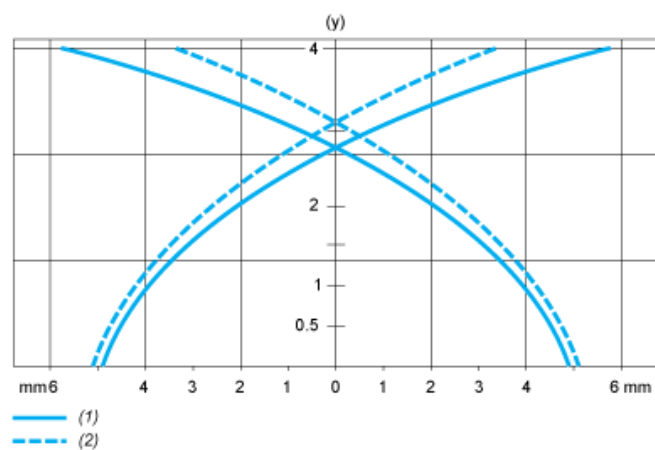
BU : Blue  
BN : Brown  
BK : Black

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Performance Curves

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Standard Steel Target : 12x12x1 mm



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