

# XS1N30PC410

Inductive proximity sensors XS, inductive sensor XS1 M30, L41mm, brass, Sn10mm, 12...24 VDC, cable 2 m



## Main

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS    |
| Series name                        | General purpose                                 |
| Sensor type                        | Inductive proximity sensor                      |
| Device application                 | Mobile equipment                                |
| Sensor name                        | XS1                                             |
| Sensor design                      | Cylindrical M30                                 |
| Size                               | 44 mm                                           |
| Body type                          | Fixed                                           |
| Detector flush mounting acceptance | Flush mountable                                 |
| Material                           | Metal                                           |
| Type of output signal              | Discrete                                        |
| Wiring technique                   | 4-wire                                          |
| [Sn] nominal sensing distance      | 0.39 in (10 mm)                                 |
| Discrete output function           | 1 NO + 1 NC                                     |
| Output circuit type                | DC                                              |
| Discrete output type               | PNP                                             |
| Electrical connection              | Cable                                           |
| Cable length                       | 6.56 ft (2 m)                                   |
| [Us] rated supply voltage          | 12...24 V DC reverse polarity protection        |
| Switching capacity in mA           | <= 200 mA overload and short-circuit protection |
| IP degree of protection            | IP68 conforming to IEC 60529<br>IP65            |

## Complementary

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| Safety level             | SIL 2 EN/IEC 61508<br>PL = d EN/ISO 13849-1<br>SILCL 2 IEC 62061                                       |
| Safety reliability data  | MTTFd = 1810 years<br>PFHd = 62.9E-9 1/h<br>SFF = 92 %<br>DC = 74 % with appropriate safety controller |
| Service life             | 20 year(s)                                                                                             |
| Thread type              | M30 x 1.5                                                                                              |
| Detection face           | Frontal                                                                                                |
| Front material           | PPS                                                                                                    |
| Enclosure material       | Nickel Plated Brass                                                                                    |
| Operating zone           | 0.00...0.31 in (0...8 mm)                                                                              |
| Differential travel      | 1...15% of Sr                                                                                          |
| Cable composition        | 4 x 0.22 mm <sup>2</sup>                                                                               |
| Wire insulation material | PvR                                                                                                    |
| Status LED               | Output state 1 LED yellow)                                                                             |
| Supply voltage limits    | 9...36 V DC                                                                                            |
| Switching frequency      | <= 1000 Hz                                                                                             |
| Maximum voltage drop     | <2 V closed)                                                                                           |

|                        |                       |
|------------------------|-----------------------|
| Current consumption    | 0...10 mA no-load     |
| Maximum delay first up | 5 ms                  |
| Maximum delay response | 0.3 ms                |
| Maximum delay recovery | 0.7 ms                |
| Marking                | CE                    |
| Threaded length        | 1.26 in (32 mm)       |
| Length                 | 1.73 in (44 mm)       |
| Net Weight             | 0.35 lb(US) (0.16 kg) |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Standards                             | EN/ISO 13849-1<br>IEC 62061             |
| Product certifications                | UL<br>TÜV<br>E2<br>CSA                  |
| 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                  | 00785901917359             |
| Nbr. of units in pkg. | 1                          |
| Package weight(Lbs)   | 0.43 lb(US) (0.20 kg)      |
| Returnability         | No                         |
| Country of origin     | FR                         |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 1.65 in (4.2 cm)       |
| Package 1 width              | 4.69 in (11.9 cm)      |
| Package 1 Length             | 6.69 in (17 cm)        |
| Unit Type of Package 2       | BAG                    |
| Number of Units in Package 2 | 1                      |
| Package 2 Weight             | 6.38 oz (181 g)        |
| Package 2 Height             | 1.18 in (3 cm)         |
| Package 2 width              | 9.84 in (25 cm)        |
| Package 2 Length             | 7.87 in (20 cm)        |
| Unit Type of Package 3       | S02                    |
| Number of Units in Package 3 | 22                     |
| Package 3 Weight             | 8.81 lb(US) (3.996 kg) |
| Package 3 Height             | 5.91 in (15 cm)        |
| Package 3 width              | 11.81 in (30 cm)       |
| Package 3 Length             | 15.75 in (40 cm)       |

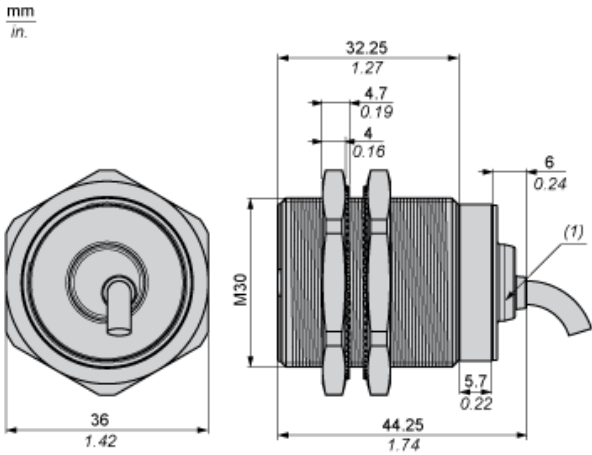
## Offer Sustainability

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



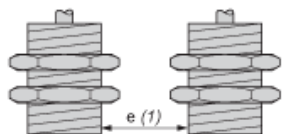
(1) LED

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Minimum Mounting Distances

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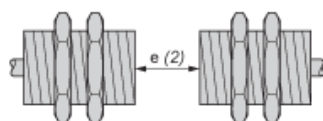
Side by side



e (1) 20 mm/0.79 in

≥

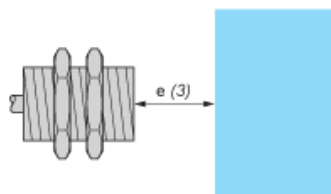
Face to face



e (2) 120 mm/4.72 in

≥

Facing a metal object

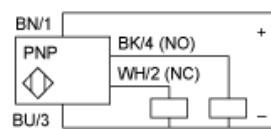


e (3) 30 mm/1.18 in.

≥

## Wiring Schemes

### PNP 4-wire



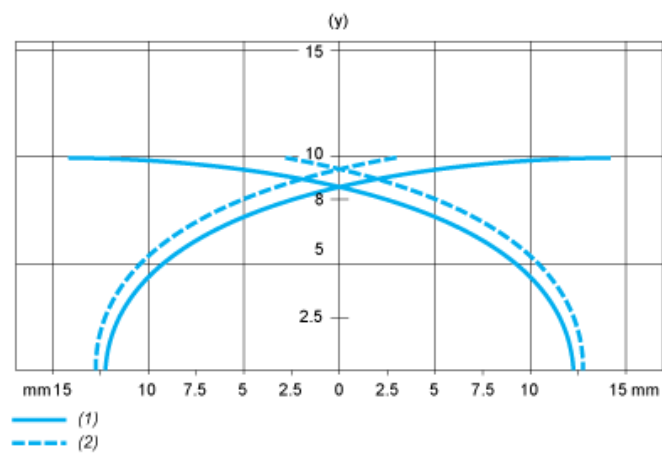
BU : Blue  
BN : Brown  
BK : Black  
WH : White

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Performance Curves

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Standard Steel Target : 30x30x1 mm



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