



## Main

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Range of product                   | OsiSense XS                                          |
| Series name                        | Application                                          |
| Sensor type                        | Inductive proximity sensor                           |
| Device application                 | Rotation monitoring                                  |
| Sensor name                        | XSA                                                  |
| Sensor design                      | Cylindrical M30                                      |
| Size                               | 81 mm                                                |
| Body type                          | Fixed                                                |
| Detector flush mounting acceptance | Flush mountable                                      |
| Material                           | Metal                                                |
| Enclosure material                 | Nickel plated brass                                  |
| Type of output signal              | Discrete                                             |
| Wiring technique                   | 3-wire                                               |
| [Sn] nominal sensing distance      | 10 mm                                                |
| Discrete output function           | 1 NC                                                 |
| Output circuit type                | DC                                                   |
| Discrete output type               | PNP                                                  |
| Electrical connection              | Cable                                                |
| Cable length                       | 10 m                                                 |
| [Us] rated supply voltage          | 12...48 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

|                            |                           |
|----------------------------|---------------------------|
| Thread type                | M30 x 1.5                 |
| Detection face             | Frontal                   |
| Front material             | PPS                       |
| Sensing range              | > 8...15 mm               |
| Adjustable frequency range | 120...3000 cyc/mn         |
| Operating zone             | 0...8 mm                  |
| Differential travel        | 3...15% of Fr             |
| Repeat accuracy            | 3% of Sr                  |
| Cable composition          | 3 x 0.34 mm <sup>2</sup>  |
| Wire insulation material   | PvR                       |
| Status LED                 | Output state: 1 LED (red) |
| Supply voltage limits      | 10...58 V DC              |
| Maximum residual current   | 1.5 mA open state         |
| Switching frequency        | <= 800 Hz                 |
| Maximum voltage drop       | <1.8 V (closed)           |
| Current consumption        | 0...15 mA no-load         |
| Run-up delay at power-up   | 3 s reduce                |
| Marking                    | CE                        |
| Threaded length            | 67 mm                     |

|            |        |
|------------|--------|
| Length     | 81 mm  |
| Net weight | 0.3 kg |

## Environment

|                                       |                  |
|---------------------------------------|------------------|
| Product certifications                | UL<br>CSA<br>CCC |
| Ambient air temperature for operation | -25...70 °C      |
| Ambient air temperature for storage   | -40...85 °C      |

## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Weight             | 642 g  |
| Package 1 Height             | 13 cm  |
| Package 1 width              | 6.5 cm |
| Package 1 Length             | 9.5 cm |

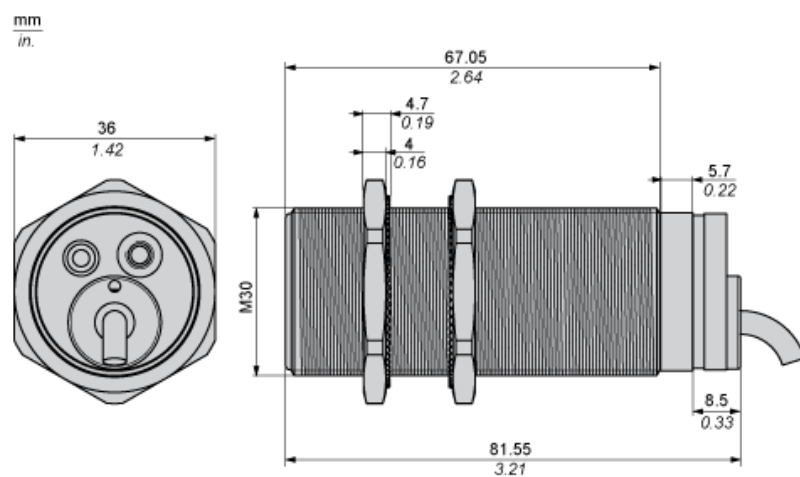
## Offer Sustainability

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



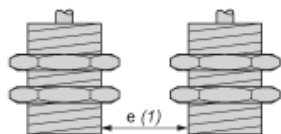
(1) LED

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### Minimum Mounting Distances

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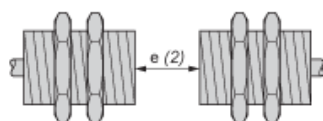
Side by side



e (1) 20 mm/0.79 in

≥

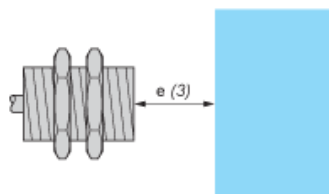
Face to face



e (2) 120 mm/4.72 in

≥

Facing a metal object

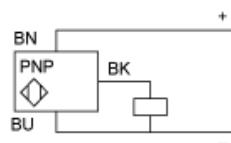


e (3) 30 mm/1.18 in.

≥

## Wiring Schemes

3-wire DC



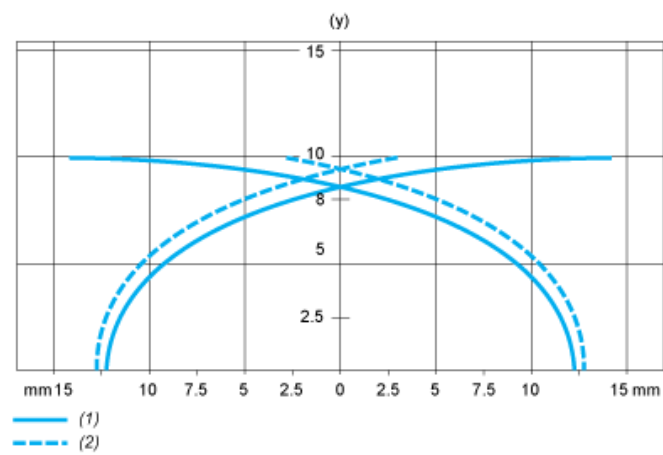
BU : Blue  
BN : Brown  
BK : Black

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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