



## Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS1
Sensor design	Cylindrical M5
Size	29 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	1 mm
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	32.81 ft (10 m)
[Us] rated supply voltage	5...24 V DC
Switching capacity in mA	<= 100 mA with overload and short-circuit protection
IP degree of protection	IP67 IEC 60529

## Complementary

Thread type	M5 x 0.5
Detection face	Frontal
Front material	PPS

Enclosure material	Nickel plated brass
Operating zone	0.00...0.03 in (0...0.8 mm)
Cable composition	3 x 0.11 mm <sup>2</sup>
Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	5...30 V DC
Switching frequency	<= 5000 Hz
Maximum voltage drop	<2 V closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	1 ms
Maximum delay recovery	1 ms
Marking	CE
Threaded length	1.14 in (29 mm)
Length	1.14 in (29 mm)

## Environment

Product certifications	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

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	5.04 oz (143 g)
Package 1 Height	1.77 in (4.5 cm)
Package 1 width	3.15 in (8 cm)
Package 1 Length	5.71 in (14.5 cm)

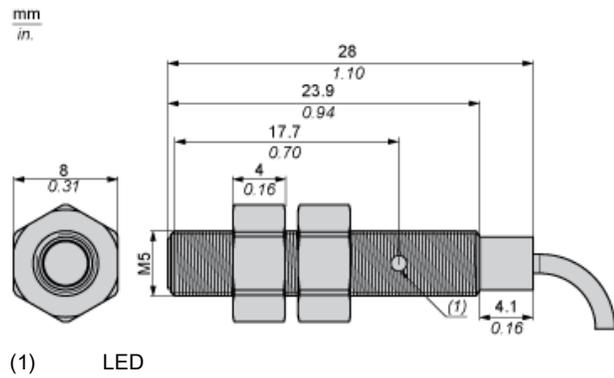
## Offer Sustainability

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
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Dimensions

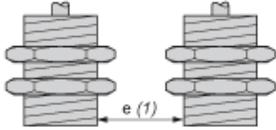


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Minimum Mounting Distances in mm

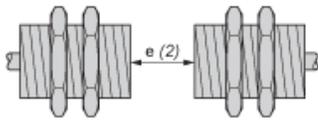
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Side by side



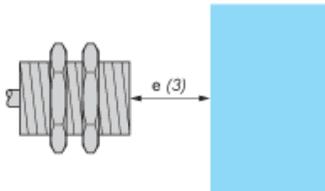
$e(1) \geq 2 \text{ mm}/0.79 \text{ in.}$

Face to face



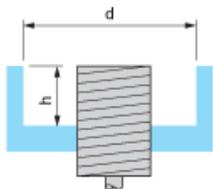
$e(2) \geq 12 \text{ mm}/0.47 \text{ in.}$

Facing a metal object



$e(3) \geq 3 \text{ mm}/0.12 \text{ in.}$

Mounted in a metal support



$d \geq 5 \text{ mm}/0.17 \text{ in.}$

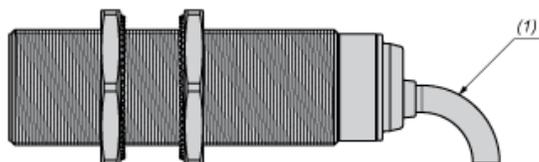
$h \geq 0 \text{ mm}/0 \text{ in.}$

Tightening torque : 1.6 N.m. (values obtained with washers mounted)

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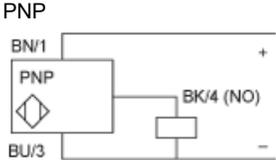
Mounting

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(1) Bending cable: 4 x external cable diameter

Wiring Schemes



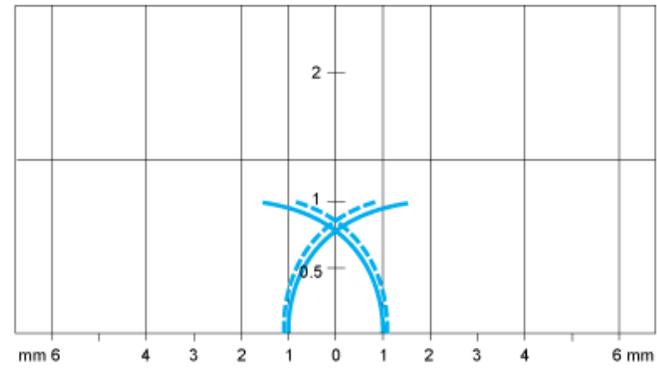
- BU : Blue
- BN : Brown
- BK : Black

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Performance Curves

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Standard Steel Target (mm) : 5x5x1



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