

# Product data sheet

## Characteristics

# XS612B1MAL2

inductive sensor, XS6, M12, L53 mm, brass,  
Sensing 4 mm, 24 to 240 VAC/DC, 2 meter cable

Product availability : Stock - Normally stocked in distribution facility



Price\* : 71.22 USD



## Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS6
Sensor design	Cylindrical M12
Size	54 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	2-wire
[Sn] nominal sensing distance	0.16 in (4 mm)
Discrete output function	1 NO
Output circuit type	AC/DC
Electrical connection	Cable
Cable length	6.56 ft (2 m)
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz
Switching capacity in mA	5...200 mA AC/DC
IP degree of protection	IP68 double insulation IEC 60529 IP69K DIN 40050

## Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS

\* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Enclosure material	Nickel plated brass
Sensing range	> 0.1...0.16 in (> 2.5...4 mm)
Operating zone	0.00...0.13 in (0...3.2 mm)
Differential travel	1...15% of Sr
Cable composition	2 x 0.34 mm <sup>2</sup>
Wire insulation material	PvR
Status LED	Output state 1 LED yellow)
Supply voltage limits	20...264 V AC/DC
Maximum residual current	0.8 mA open state
Switching frequency	<= 1000 Hz DC <= 25 Hz AC
Maximum voltage drop	<5.5 V closed)
Maximum delay first up	20 ms
Maximum delay response	0.5 ms
Maximum delay recovery	0.2 ms
Marking	CE
Threaded length	1.65 in (42 mm)
Length	2.13 in (54 mm)
Net weight	0.17 lb(US) (0.075 kg)

## Environment

Product certifications	UL 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	00785901412915
Nbr. of units in pkg.	1
Package weight(Lbs)	0.2 lb(US) (0.09 kg)
Returnability	Yes
Country of origin	ID

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.77 in (4.5 cm)
Package 1 width	3.74 in (9.5 cm)
Package 1 Length	5.12 in (13 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	44
Package 2 Weight	8.58 lb(US) (3.894 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	352
Package 3 Weight	88.74 lb(US) (40.252 kg)
Package 3 Height	30.31 in (77 cm)

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Package 3 width	23.62 in (60 cm)
Package 3 Length	31.50 in (80 cm)

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### Offer Sustainability

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Sustainable offer status	Green Premium product
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>

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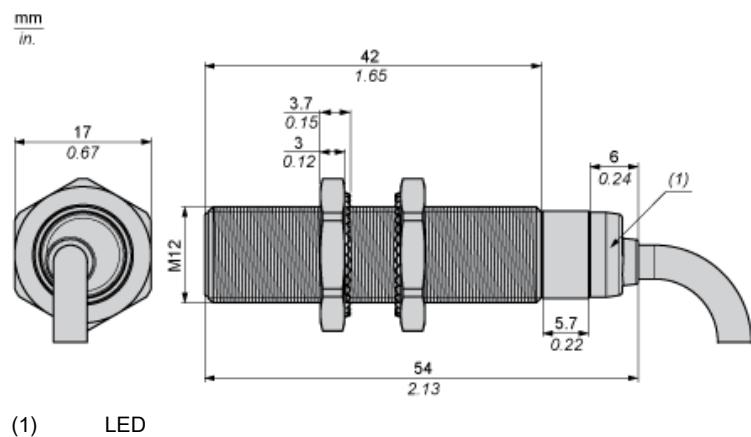
### Contractual warranty

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Warranty	18 months
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## Dimensions

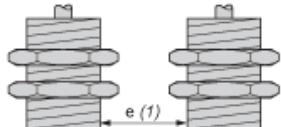


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### Minimum Mounting Distances

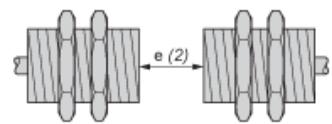
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Side by side



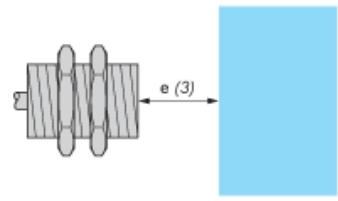
$e (1) \geq 8 \text{ mm/0.31 in.}$

Face to face



$e (2) \geq 48 \text{ mm/1.89 in.}$

Facing a metal object

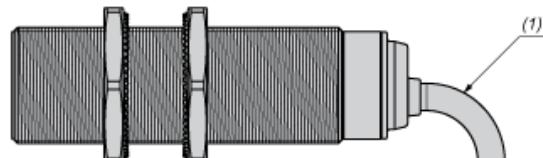


$e (3) \geq 12 \text{ mm/0.47 in.}$

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Mounting

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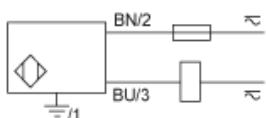


(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

2-Wire AC or DC

NO output



BU : Blue  
BN : Brown