

# Product data sheet

## Characteristics

# XS612B2NBL01M12

inductive sensor XS6 M12 - L55mm - brass -  
Sn5mm - 12..24VDC - M12 0.15m

Product availability: Non-Stock - Not normally stocked in distribution facility



### Main

Range of product	OsiSense XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS6
Sensor design	Cylindrical M12
Size	55 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	0.2 in (5 mm) non flush mountable 0.13 in (3.4 mm) flush mountable
Discrete output function	1 NC
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Remote male connector M12 4 pins
Cable length	0.49 ft (0.15 m)
[Us] rated supply voltage	12..24 V DC with reverse polarity protection
Switching capacity in mA	<= 100 mA with overload and short-circuit protection
IP degree of protection	IP67 double insulation conforming to IEC 60529 IP69K conforming to DIN 40050

### Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Fine adjustment zone	0.07...0.13 in (1.7...3.4 mm) flush mountable 0.07...0.2 in (1.7...5 mm) non flush mountable
Differential travel	1...15% of Sr
Cable composition	3 x 0.34 mm <sup>2</sup>
Wire insulation material	PvR
Status LED	1 LED (green) supply on and teach mode 1 LED (yellow) output state
Supply voltage limits	10...36 V DC
Switching frequency	<= 1000 Hz
Voltage drop	<= 2 V, closed state
Current consumption	<= 10 mA (no-load)
Delay first up	<= 10 ms
Delay response	<= 0.3 ms
Delay recovery	<= 0.7 ms
Marking	CE
Threaded length	1.65 in (42 mm)

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Length	2.32 in (59 mm)
Product weight	0.22 lb(US) (0.1 kg)

## Environment

Product certifications	CSA UL
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, amplitude: +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn (duration = 11 ms) conforming to IEC 60068-2-27

## Ordering and shipping details

Category	22486 - SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	003389110147964
Nbr. of units in pkg.	1
Package weight(Lbs)	0.16
Returnability	N
Country of origin	FR

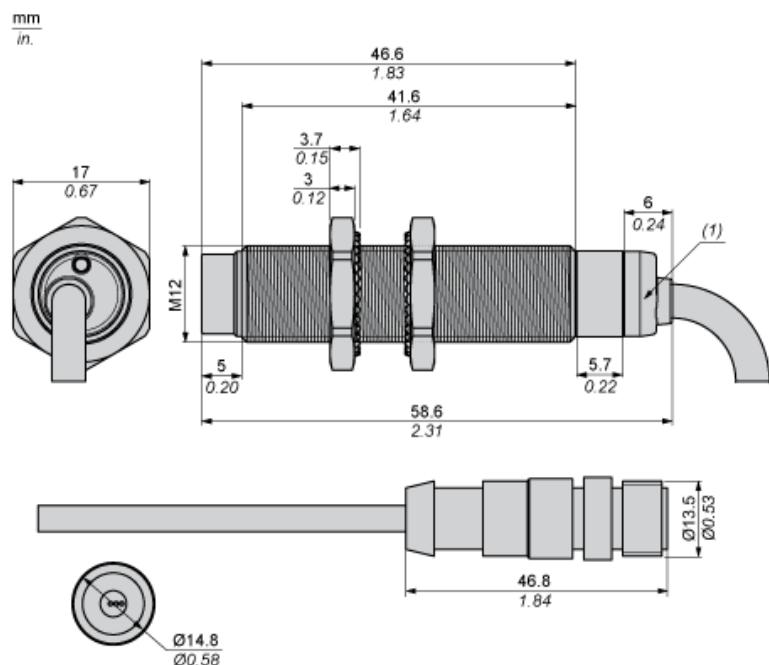
## Offer Sustainability

RoHS (date code: YYWW)	Will be compliant on 3Q2013
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and
----- Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
----- More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

Warranty period	18 months
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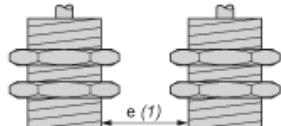
Dimensions



(1) LED

Minimum Mounting Distances in mm

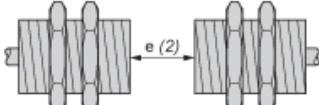
Side by side



e (1)

Flush mounted		Not flush mounted	
mm	in.	mm	in.
≥ 14	≥ 0.55	50	1.97

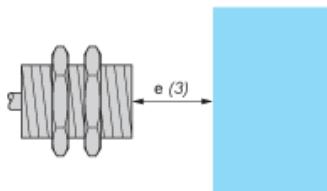
Face to face



e (2)

Flush mounted		Not flush mounted	
mm	in.	mm	in.
≥ 50	≥ 1.97	100	3.94

Facing a metal object



e (3)

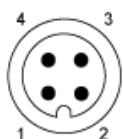
mm	in.
≥ 3.4	≥ 0.13

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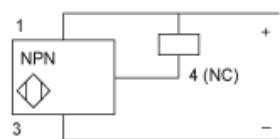
### Wiring Schemes

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M12 connector



NPN



- 1 : (+)
- 2 : NC Output
- 3 : (-)
- 4 : Not connected

# Mouser Electronics

Authorized Distributor

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