



Main

Range of Product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor Type	Inductive proximity sensor
Type of sensing window	Adjustable
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	0.20 in (5 mm) non flush mountable 0.13 in (3.4 mm) flush mountable
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Remote male connector M12, 4 pins
Cable length	0.49 ft (0.15 m)
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Switching capacity in mA	<= 100 mA 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
Sensing range	> 0.16...0.31 in (> 4...8 mm)
Fine adjustment zone	0.07...0.13 in (1.7...3.4 mm) flush mountable 0.07...0.20 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	Supply on and teach mode 1 LED green) Output state 1 LED yellow)
Supply voltage limits	10...36 V DC
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	10 ms
Maximum delay response	0.3 ms
Maximum delay recovery	0.7 ms

Marking	CE
Threaded length	1.65 in (42 mm)
Length	2.32 in (59 mm)
Net Weight	0.22 lb(US) (0.1 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	3389110147933
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.02 in (2.6 cm)
Package 1 Width	5.55 in (14.1 cm)
Package 1 Length	4.92 in (12.5 cm)
Package 1 Weight	1.98 oz (56.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	4.48 lb(US) (2.034 kg)
Package 3 Height	5.91 in (15 cm)

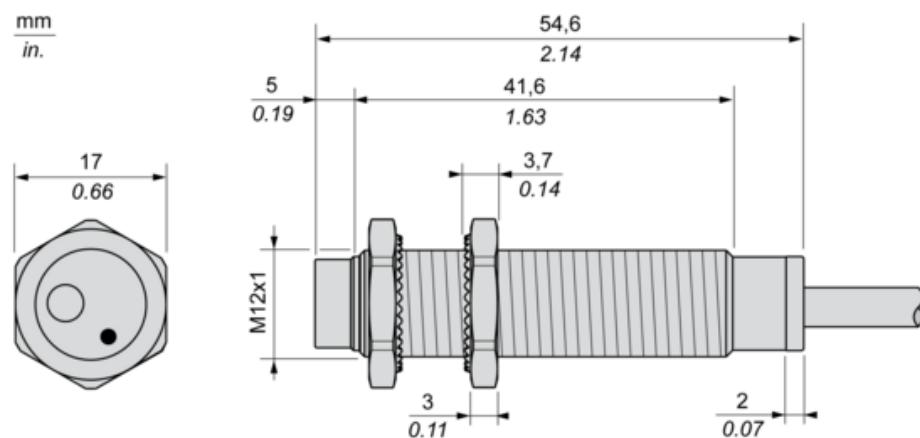
## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>

## Contractual warranty

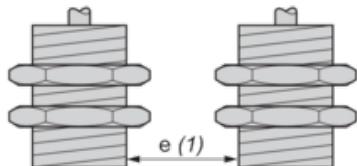
Warranty	18 months
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Dimensions



Minimum Mounting Distances in mm

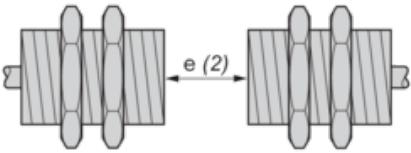
Side by side



e (1)

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

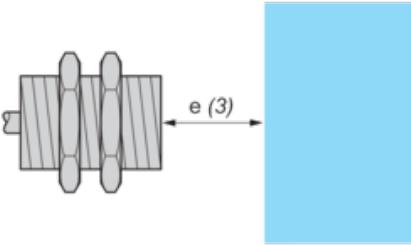
Face to face



e (2)

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

Facing a metal object



e (3)

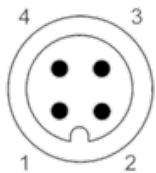
mm	in.
≥ 3.4	≥ 0.13

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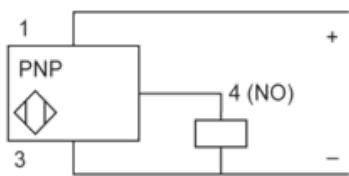
### Wiring Schemes

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M12 connector



PNP



1 : (+)

2 : Not connected

3 : (-)

4 : NO Output

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Telemecanique Sensors:](#)

[XS612B2PAL01M12](#)