

# Product data sheet

Specifications



## Ultrasonic sensors XX, ultrasonic sensor cylindrical M30, Sn 8 m, M12 connector

XX930A3A2M12

⚠ Discontinued on: 08 June 2022

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### Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX9
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	8 m adjustable with teach push-button
Material	Plastic
Type of output signal	Analogue
Wiring technique	4-wire
Analogue output function	4...20 mA
[Us] rated supply voltage	15...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.3...8 m
Beam angle	16 °
IP degree of protection	IP67 conforming to IEC 60529

### Complementary

Enclosure material	ULTEM
Front material	Epoxy
Thread type	M30 x 1.5
Supply voltage limits	14...28 V DC
Function available	Without synchronisation mode
[Sa] assured operating distance	0.3...8 m (teach mode)
Blind zone	0...300 mm
Transmission frequency	75 kHz
Repeat accuracy	2.54 %

<b>Deviation angle from 90° of object to be detected</b>	-5...5 °
<b>Minimum size of detected object</b>	Cylinder diameter 50.68 mm at 4.732 m
<b>Status LED</b>	Setting-up assistance: 1 LED (dual colour) Supply on: 1 LED (green) Output state: 1 LED (yellow)
<b>Current consumption</b>	60 mA
<b>Maximum switching capacity</b>	10...500 Ohm overload and short-circuit protection
<b>Setting-up</b>	Slope selection using teach button
<b>Maximum delay first up</b>	1200 ms
<b>Maximum delay response</b>	250 ms
<b>Maximum delay recovery</b>	250 ms
<b>Marking</b>	CE
<b>Threaded length</b>	64.3 mm
<b>Height</b>	44 mm
<b>Width</b>	44 mm
<b>Depth</b>	118 mm
<b>Net weight</b>	0.115 kg

## Environment

<b>Standards</b>	IEC 60947-5-2
<b>Product certifications</b>	UL cCSAus
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Ambient air temperature for storage</b>	-40...80 °C
<b>Vibration resistance</b>	+/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz)
<b>Shock resistance</b>	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
<b>Resistance to electrostatic discharge</b>	8 kV level 4 conforming to IEC 61000-4-2
<b>Resistance to electromagnetic fields</b>	10 V/m level 3 conforming to IEC 61000-4-3
<b>Resistance to fast transients</b>	1 kV level 3 conforming to IEC 61000-4-4

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	5.5 cm
<b>Package 1 Width</b>	7.1 cm
<b>Package 1 Length</b>	14.2 cm
<b>Package 1 Weight</b>	191 g

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>

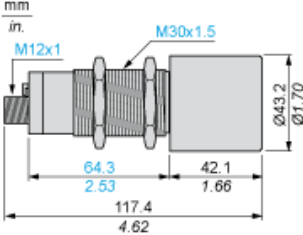
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Diisononyl 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>

## Contractual warranty

<b>Warranty</b>	18 months
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Dimensions

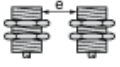
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**Minimum Mounting Distances**

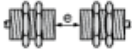
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**Side by side**



e :      respect the distances indicated on the detection curves

**Face to face**



e >      4 x Sn

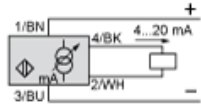
Wiring Diagram

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4-Wire Type

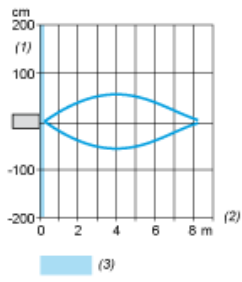


- (1) (+)
- (2) Return signal or teach
- (3) (-)
- (4) Output signal



- BN Brown
- WH White
- BU Blue
- BK Black

Curves



- (1) Parallel movement
- (2) Distance
- (3) Blind zone for diffuse sensors.

Recommended replacement(s)

XX930A3A2M12 is replaced by the following product range:



**Ultrasonic sensors XX**

Ultrasonic sensors

Products: 267