Product data sheet

Specifications



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

XX930A3A2M12

Discontinued on: 15 August 2022

Discontinued

Product availability : Stock - Normally stocked in distribution facility

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	26.25 ft (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 reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.98…26.25 ft (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	0.98…26.25 ft (0.3…8 m) teach mode)
Blind zone	0.00…11.81 in (0…300 mm)
Transmission frequency	75 kHz
Repeat accuracy	2.54 %

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Deviation angle from 90° of object to be detected	-5…5 °
Minimum size of detected object	Cylinder diameter 50.68 mm 15.52 ft (4.732 m)
Status LED	Setting-up assistance 1 LED dual colour) Supply on 1 LED green) Output state 1 LED yellow)
Current Consumption	60 mA
Maximum switching capacity	10...500 Ohm overload and short-circuit protection
Setting-up	Slope selection using teach button
Maximum delay first up	1200 ms
Maximum delay response	250 ms
Maximum delay recovery	250 ms
Marking	CE
Threaded length	2.53 in (64.3 mm)
Height	1.73 in (44 mm)
Width	1.73 in (44 mm)
Depth	4.65 in (118 mm)
Net Weight	0.25 lb(US) (0.115 kg)

Environment

Standards	IEC 60947-5-2
Product Certifications	UL cCSAus
Ambient air temperature for operation	-4…140 °F (-20…60 °C)
Ambient Air Temperature for Storage	-40…176 °F (-40…80 °C)
Vibration resistance	+/-1 mm 10…55 Hz)IEC 60068-2-6
Shock resistance	30 gn in all 3 axes 11 ms IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 IEC 61000-4-2
Resistance to electromagnetic fields	9.14 V/m (10 V/m) level 3 IEC 61000-4-3
Resistance to fast transients	1 kV level 3 IEC 61000-4-4

Ordering and shipping details

Category	22490-SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	3389110704129
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.17 in (5.5 cm)
Package 1 Width	2.80 in (7.1 cm)

Package 1 Length	5.59 in (14.2 cm)
Package 1 Weight	6.74 oz (191 g)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	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 www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

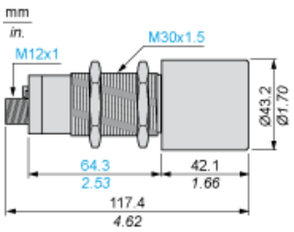
Contractual warranty

Warranty	18 months

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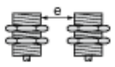
Dimensions Drawings

Dimensions



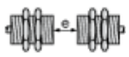
Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

Face to face



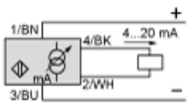
e > 4 x Sn

Wiring Diagram

4-Wire Type

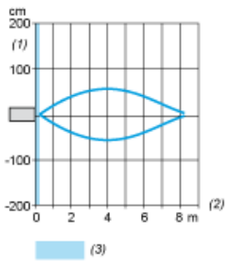


(1) (+)
(2) Return signal or teach
(3) (-)
(4) Output signal



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: 336