Product data sheet
Characteristics

XX930A2A2230M12
Ultrasonic sensors XX, ultrasonic sensor, M30, diffuse, Sn 2 m, 4...20 mA, 250 ms, M12



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	6.56 ft (2 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	0.39…6.56 ft (0.12…2 m)
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure Material	ULTEM
Front material	Silicone
Thread type	M30 x 1.5
Supply voltage limits	14…28 V DC
Function Available	Without synchronisation mode
[Sa] assured operating distance	0.39…6.56 ft (0.12…2 m) teach mode)
Blind zone	0.00…4.72 in (0…120 mm)
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-8…8 °
Minimum size of detected object	Cylinder diameter 1.6 mm 2.08 ft (0.635 m)
Status LED	Setting-up assistance/supply on/output state 1 LED dual colour) 1 LED yellow) 1 LED green)
Current Consumption	80 mA
Maximum switching capacity	10...500 Ohm overload and short-circuit protection
Setting-up	Slope selection using teach button
Maximum delay first up	720 ms
Maximum delay response	250 ms
Maximum delay recovery	25 ms
Marking	CE
Threaded length	1.77 in (45 mm)
Height	1.38 in (35 mm)
Width	1.38 in (35 mm)
Depth	3.35 in (85 mm)
Net Weight	0.21 lb(US) (0.095 kg)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Environment

Standards	IEC 60947-5-2
Product Certifications	UL cCSAus
Ambient Air Temperature for Operation	32…122 °F (0…50 °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	3389119130363
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.61 in (4.1 cm)
Package 1 Width	5.12 in (13 cm)
Package 1 Length	3.70 in (9.4 cm)
Package 1 Weight	3.88 oz (109.996 g)

Offer Sustainability

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
EU RoHS Directive	Not applicable, out of EU RoHS legal scope

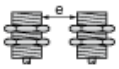
Contractual warranty

Warranty	18 months

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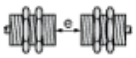
Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

Face to face



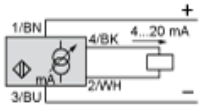
e > 4 x Sn

Wiring Diagram

4-Wire Type



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



BN Brown
WH White
BU Blue
BK Black