Product data sheet Characteristics

XX918A3C2M12

Ultrasonic sensors XX, ultrasonic sensor cylindrical M18, Sn 0.5 m, 4...20 mA, M12 connector





Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX9
Sensor design	Cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	0.5 m adjustable with remote teach push-button
Material	Plastic
Type of output signal	Analogue
Wiring technique	4-wire
Analogue output function	420 mA
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.0510.508 m
Beam angle	6°
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Complementary	
Enclosure material	Valox
Front material	Ероху
Thread type	M18 x 1
Supply voltage limits	1028 V DC
[Sa] assured operating distance	0.0510.508 m (teach mode)
Blind zone	051 mm
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Deviation angle from 90° of object to be detected	-77 °
Minimum size of detected object	Cylinder diameter 1.6 mm
Status LED	Setting-up assistance: 1 LED (dual colour) Supply on: 1 LED (green) Output state: 1 LED (yellow)
Current consumption	40 mA
Maximum switching capacity	10500 Ohm overload and short-circuit protection
Maximum voltage drop	1 V
Setting-up	Slope selection using teach button
Maximum delay first up	100 ms
Maximum delay response	25 ms
Maximum delay recovery	25 ms
Marking	CE
Threaded length	43 mm
Height	18 mm
Width	18 mm
Depth	79 mm
Net weight	0.033 kg

Mar 16, 2022

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 inherence in not to be used for determining suitability or inhability of these products for specific user applications. This documentation is not integrated to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Standards	IEC 60947-5-2
Product certifications	CCSAus UL
Ambient air temperature for operation	-2065 °C
Ambient air temperature for storage	-4080 °C
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz)
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3
Resistance to fast transients	1 kV level 3 conforming to IEC 61000-4-4

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	226.796 g
Package 1 Height	1.801 cm
Package 1 width	7.838 cm
Package 1 Length	1.801 cm
Unit Type of Package 2	S01
Number of Units in Package 2	15
Package 2 Weight	3.602 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product
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
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

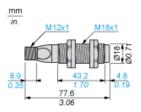
Contractual warranty

Warranty	18 months
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Product data sheet **Dimensions Drawings**

XX918A3C2M12

Dimensions



XX918A3C2M12

Product data sheet **Mounting and Clearance**

Minimum Mounting Distances

Side by side



respect the distances indicated on the detection curves

Face to face



Product data sheet Connections and Schema

XX918A3C2M12

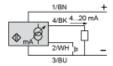
Wiring Diagram

4-Wire Type



(1) (2) (3) Return signal or teach

(4) Output signal



BN Brown

WH White

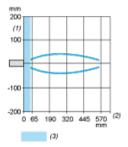
BU Blue

BK Black

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Product data sheet **Performance Curves**

Curves



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