

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	1.64 ft (0.5 m) adjustable with remote teach push-button
Material	Plastic
Type of output signal	Analogue
Wiring Technique	4-wire
Analogue output function	4...20 mA
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.17...1.67 ft (0.051...0.508 m)
Beam angle	6 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure Material	Valox
Front material	Epoxy
Thread type	M18 x 1
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.17...1.67 ft (0.051...0.508 m) teach mode)
Blind zone	0.00...2.01 in (0...51 mm)
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Deviation angle from 90° of object to be detected	-7...7 °
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	10...500 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	1.69 in (43 mm)
Height	0.71 in (18 mm)
Width	0.71 in (18 mm)
Depth	3.11 in (79 mm)
Net Weight	0.07 lb(US) (0.033 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. Neither TWSS Holding 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[RETURN]UL
Ambient Air Temperature for Operation	-4...149 °F (-20...65 °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	US10DS222490
Discount Schedule	0DS2
GTIN	3389119029841
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.71 in (1.801 cm)
Package 1 Width	3.09 in (7.838 cm)
Package 1 Length	0.71 in (1.801 cm)
Package 1 Weight	8.00 oz (226.796 g)
Unit Type of Package 2	S01
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	5.91 in (15.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	7.94 lb(US) (3.602 kg)

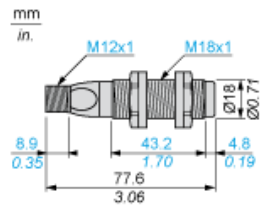
Offer Sustainability

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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

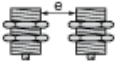
Warranty	18 months
----------	-----------

Dimensions



Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

Face to face



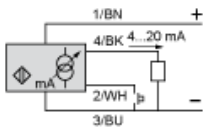
$e > 4 \times S_n$

Wiring Diagram

4-Wire Type

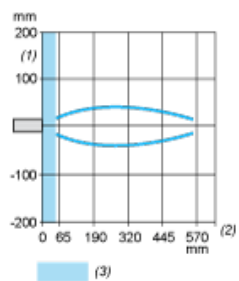


- (1) (+)
- (2) Return signal or teach
- (3) (-)
- (4) Output signal



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

Curves



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