Product data sheet
Characteristics

XX9V1A1C2M12

ultrasonic sensor parallelepipedic - Sn 0.5 m - 4..20 mA - M12 connector

Green Premium™

Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX9
Sensor design	Flat form 18 x 33 x 60 + 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 with 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 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 2.5 mm 0.49 ft (0.15 m) Flat bar 1 mm wide 0.49 ft (0.15 m)
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
Setting-up	Slope selection using teach button
Maximum delay first up	100 ms
Maximum delay response	15 ms
Maximum delay recovery	10 ms
Marking	CE
Threaded length	0.79 in (20 mm)
Height	2.56 in (65 mm)
Width	1.73 in (44 mm)
Depth	0.71 in (18 mm)
Net weight	0.20 lb(US) (0.09 kg)

Environment

Standards	IEC 60947-5-2
Product certifications	UL CCSAus
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/yd (10 V/m) level 3 IEC 61000-4-3
Resistance to fast transients	1 kV level 3 IEC 61000-4-4

Packing Units

Package 1 Weight	8.00 oz (226.796 g)

Offer Sustainability

Sustainable offer status	Green Premium product
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