

XX930A1A123HM12

ultrasonic sensor cylindrical M30 - Sn=1m -
analog 0-10V 250ms sync - M12



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX9
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	1 m adjustable with teach push-button
Material	Plastic
Type of output signal	Analogue
Wiring technique	5-wire
Analogue output function	0...10 V
[Us] rated supply voltage	15...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 5 pins
[Sd] sensing range	0.051...0.991 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	With synchronisation mode
[Sa] assured operating distance	0.051...0.991 m (teach mode)
Blind zone	0...51 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 at 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	>= 1 kOhm 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	45 mm
Height	35 mm
Width	35 mm
Depth	85 mm
Net weight	0.095 kg

The information provided in this documentation contains general descriptions and/or technical characteristics of the products 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 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	0...50 °C
Ambient air temperature for storage	-40...80 °C
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 10...55 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

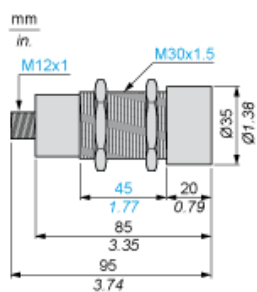
Packing Units

Package 1 Weight	0.126 kg
Package 1 Height	0.420 dm
Package 1 width	1.300 dm
Package 1 Length	0.950 dm

Offer Sustainability

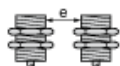
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
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Dimensions



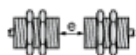
Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

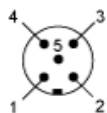
Face to face



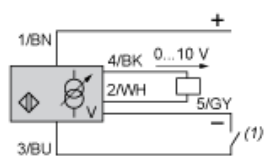
$e > 4 \times S_n$

Wiring Diagram

5-Wire Type



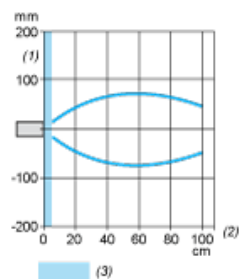
- (1) (+)
- (2) Return signal or teach
- (3) (-)
- (4) Output signal
- (5) Synchronisation (Grey)



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

- (1) Open = burst
- Close = no burst

Curves



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