

XX930A3A2HM12

ultrasonic sensor cylindrical M30 - Sn=8m -
analog 4-20mA 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	8 m adjustable with teach push-button
Material	Plastic
Type of output signal	Analogue
Wiring technique	5-wire
Analogue output function	4...20 mA
[Us] rated supply voltage	15...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 5 pins
[Sd] sensing range	0.3...8 m
Beam angle	16 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Epoxy
Thread type	M30 x 1.5
Supply voltage limits	14...28 V DC
Function available	With synchronisation mode
[Sa] assured operating distance	0.3...8 m (teach mode)
Blind zone	0...300 mm
Transmission frequency	75 kHz
Repeat accuracy	2.54 %
Deviation angle from 90° of object to be detected	-5...5 °
Minimum size of detected object	Cylinder diameter 50.68 mm at 4.732 m
Status LED	Setting-up assistance: 1 LED (dual colour) Supply on: 1 LED (green) Output state: 1 LED (yellow)
Current consumption	60 mA
Maximum switching capacity	10...500 Ohm overload and short-circuit protection
Setting-up	Slope selection using teach button
Maximum delay first up	1200 ms
Maximum delay response	250 ms
Maximum delay recovery	250 ms
Marking	CE
Threaded length	64.3 mm
Height	44 mm
Width	44 mm
Depth	118 mm
Net weight	0.115 kg

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Environment

Standards	IEC 60947-5-2
Product certifications	CCSAus UL
Ambient air temperature for operation	-20...60 °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

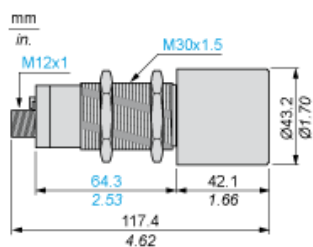
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	191 g
Package 1 Height	6.8 cm
Package 1 width	13.2 cm
Package 1 Length	9.6 cm

Offer Sustainability

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

Dimensions



Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

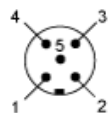
Face to face



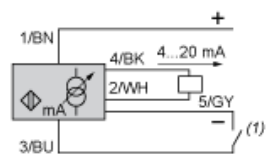
$e > 4 \times S_n$

Wiring Diagram

5-Wire Type



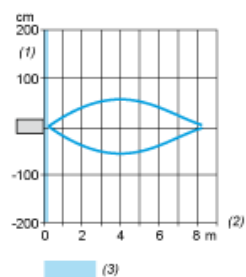
- (1) (+)
- (2) Return signal or teach
- (3) (-)
- (4) Output signal
- (5) Synchronisation (Grey)



- 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.