Product data sheet Characteristics

XX512A2NAM8

ultrasonic sensor cylindrical M12 - Sn 0.1 m - NO - M8 connector





Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX5
Sensor design	Cylindrical M12
Detection system	Diffuse
[Sn] nominal sensing distance	0.1 m fixed
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	3-wire
Discrete output type	NPN
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Electrical connection	Male connector M8 3 pins
[Sd] sensing range	0.00640.102 m
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Complementary	
Enclosure material	ULTEM
Front material	Ероху
Thread type	M12 x 1
Supply voltage limits	1028 V DC
[Sa] assured operating distance	0.00640.102 m
Maximum differential travel	0.7 mm
Blind zone	06.4 mm
Transmission frequency	500 kHz
Repeat accuracy	0.7 %
Deviation angle from 90° of object to be detected	-1010 °
Minimum size of detected object	Cylinder diameter 2.5 mm Flat bar 1 mm wide
Status LED	Supply on: 1 LED (green) Output state: 1 LED (yellow)
Current consumption	25 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	1 V
Switching frequency	<= 125 Hz
Maximum delay first up	20 ms
Maximum delay response	3 ms
Maximum delay recovery	3 ms
Marking	CE
Threaded length	38 mm
Height	12 mm
Width	12 mm
Depth	50 mm
Net weight	0.011 kg

Environment

Standards	IEC 60947-5-2
Product certifications	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

Package 1 Weight	0.023 kg
Package 1 Height	0.360 dm
Package 1 width	0.360 dm
Package 1 Length	0.950 dm

Offer Sustainability

Green Premium product
REACh Declaration
Pro-active compliance (Product out of EU RoHS legal scope) EVEU RoHS Declaration
Yes
₫Yes
Product Environmental Profile
End of Life Information

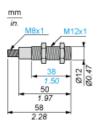
Contractual warranty

To months	Warranty 18 mont	
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Product data sheet Dimensions Drawings

XX512A2NAM8

Dimensions



Product data sheet Mounting and Clearance

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Minimum Mounting Distances

Side by side



e: respect the distances indicated on the detection curves

Face to face



e > 4 x Sn

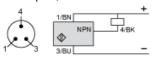
Product data sheet Connections and Schema

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Wiring Diagram

3-Wire Type

NO outputs, NPN



(1) (3) (4) BN

(+) (-) Output

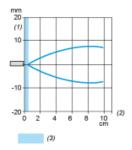
Brown

BU Blue BK Black

Product data sheet **Performance Curves**

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Curves



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