XX218A3PHM12

ultrasonic sensor cylindrical M18 - 2 emptying levels - Sn 0.5 m - NO - M12





Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	Application
Sensor name	XX2
Sensor design	Cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	0.5 m adjustable with remote teach push-button
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	3-wire
Discrete output type	PNP
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
Product specific application	For 2 emptying levels monitoring
[Sd] sensing range	0.0510.508 m
Beam angle	6°
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Complementary	
Enclosure material	Valox
Front material	Ероху
Thread type	M18 x 1
Supply voltage limits	1028 V DC
[Sa] assured operating distance	0.0510.508 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	051 mm
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Deviation angle from 90° of object to be detected	-77 °
Minimum size of detected object	Cylinder diameter 2.5 mm at 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 current	100 mA with overload and short-circuit protection
Maximum voltage drop	1 V
Maximum delay first up	100 ms
Maximum delay response	15 ms
Maximum delay recovery	1000 ms
Marking	CE
Threaded length	43 mm
Height	18 mm
Width	18 mm

Depth	79 mm
Net weight	0.033 kg
Environment	
Standards	IEC 60947-5-2
Product certifications	CCSAus 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
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Packing Units	
	226.796 g
Packing Units	
Packing Units Package 1 Weight	
Packing Units Package 1 Weight Offer Sustainability	226.796 g
Packing Units Package 1 Weight Offer Sustainability Sustainable offer status	226.796 g Green Premium product ☑ REACh Declaration
Packing Units Package 1 Weight Offer Sustainability Sustainable offer status REACh Regulation	Green Premium product ☑ REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope) ☑ EU RoHS
Packing Units Package 1 Weight Offer Sustainability Sustainable offer status REACh Regulation EU RoHS Directive	226.796 g Green Premium product ☐REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope) ☐EU RoHS Declaration
Packing Units Package 1 Weight Offer Sustainability Sustainable offer status REACh Regulation EU RoHS Directive Mercury free	Green Premium product ☐ REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope) ☐ EU RoHS Declaration Yes

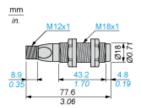
18 months

Warranty

Product data sheet Dimensions Drawings

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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

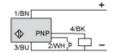
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Wiring Diagram

3-Wire Type

NO outputs, PNP





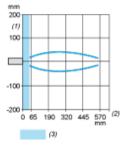
- (1) (+) (2) Teach in (3) (-) (4) Output Prown (+) Teach input (WH)

 - WH White
 - BU Blue
 - BK Black

Product data sheet **Performance Curves**

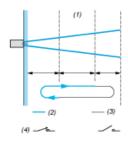
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Curves



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

Operating Curves



- Adjustable detection zone (1)
- Output activated
- Output deactivated
- (2) (3) (4) NO output