

XX230A22HA00M12

ultrasonic sensor cylindrical M30 - Sn=2m -
dual level NO PNP sync - M12



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX2
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	2 m adjustable with teach push-button
Material	Plastic
Type of output signal	Discrete
Discrete output function	2 NO
Wiring technique	5-wire
Discrete output type	PNP
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 5 pins
Product specific application	For 2 levels monitoring
[Sd] sensing range	0.12...2 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	10...28 V DC
Function available	With synchronisation mode
[Sa] assured operating distance	0.12...2 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	0...120 mm
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-10...10 °
Minimum size of detected object	Cylinder diameter 1.6 mm at 0.635 m
Status LED	Output state: 1 LED (green/red (flashing)) Setting-up assistance: 1 LED (green/red (flashing)) Distance indication: 1 LED (yellow)
Current consumption	100 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	1 V
Maximum delay first up	1000 ms
Maximum delay response	150 ms
Maximum delay recovery	1000 ms
Marking	CE
Threaded length	45 mm
Height	35 mm
Width	35 mm

Depth	85 mm
Net weight	0.091 kg

Environment

Standards	IEC 60947-5-2
Product certifications	CCSAus UL
Ambient air temperature for operation	0...50 °C
Ambient air temperature for storage	-10...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

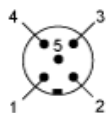
Face to face



$e > 4 \times S_n$

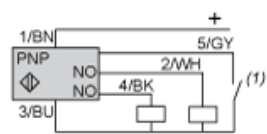
Wiring Diagram

Connector



- (1) (+) Brown
- (2) NO output (White)
- (3) (-) Blue
- (4) NO output (Black)
- (5) Synchronisation (Grey)

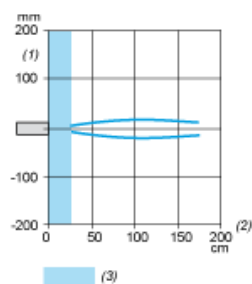
NO + NO Outputs, PNP



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

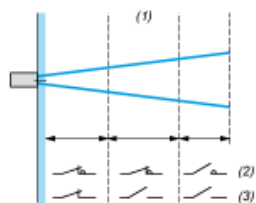
- (1) Open = burst
- Close = no burst

Curves



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

Operating Curves



- (1) Adjustable detection zone
- (2) Output pin 4 BK
- (3) Output pin 2 WH