

Product data sheet

Characteristics

XX230A20NA00M12

ultrasonic sensor cylindrical M30 - Sn=2m -
pump out NO PNP sync - M12



Main

Range of Product	Telemecanique Ultrasonic sensors XX
Sensor Type	Ultrasonic sensor
Series name	Application
Sensor name	XX2
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	6.56 ft (2 m) adjustable with teach push-button
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO + 1 NC
Wiring Technique	5-wire
Discrete output type	PNP
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Electrical connection	Male connector M12 5 pins
Product Specific Application	For 2 emptying levels monitoring
[Sd] sensing range	0.39...6.56 ft (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	0.39...6.56 ft (0.12...2 m) teach mode)
Maximum differential travel	0.10 in (2.5 mm)
Blind zone	0.00...4.72 in (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 2.08 ft (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 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	1.77 in (45 mm)
Height	1.38 in (35 mm)
Width	1.38 in (35 mm)

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Depth	3.35 in (85 mm)
Net Weight	0.20 lb(US) (0.091 kg)

Environment

Standards	IEC 60947-5-2
Product Certifications	CCSAus UL
Ambient air temperature for operation	32...122 °F (0...50 °C)
Ambient Air Temperature for Storage	14...176 °F (-10...80 °C)
Vibration resistance	+/- 1 mm 10...55 Hz) IEC 60068-2-6
Shock resistance	30 gn in all 3 axes 11 ms IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 IEC 61000-4-2
Resistance to electromagnetic fields	9.14 V/m (10 V/m) level 3 IEC 61000-4-3
Resistance to fast transients	1 kV level 3 IEC 61000-4-4

Ordering and shipping details

Category	22490 - SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	03389119128919
Nbr. of units in pkg.	1
Package weight(Lbs)	0.5 lb(US) (0.23 kg)
Returnability	No
Country of origin	US

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
EU RoHS Directive	Not applicable, out of EU RoHS legal scope

Contractual warranty

Warranty	18 months
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