Product data sheet

Specifications



Ultrasonic sensors XX, ultrasonic sensor parallelepipedic, Sn 0.5 m, NO, M12 connector

XX7V1A1PAM12

Product availability : Stock - Normally stocked in distribution facility

Price* : 210.00 USD

Main

Range of Product	Telemecanique Ultrasonic sensors XX
Sensor Type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX7
Sensor design	Flat form 18 x 33 x 60 + cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	1.64 ft (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	12...24 V DC reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.17…1.67 ft (0.051…0.508 m)
Beam angle	12 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure Material	Valox
Front material	Epoxy
Supply voltage limits	10…28 V DC
[Sa] assured operating distance	0.17…1.67 ft (0.051…0.508 m) teach mode)
Maximum differential travel	0.10 in (2.5 mm)
Blind zone	0.00…2.01 in (0…51 mm)
Transmission frequency	300 kHz
Repeat accuracy	1.27 %

* Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Minimum size of detected object	Cylinder diameter 2.5 mm 0.49 ft (0.15 m) Flat bar 1 mm wide 0.49 ft (0.15 m)
Status LED	Supply on 1 LED green) Output state 1 LED yellow)
Current Consumption	40 mA
Maximum switching current	100 mA
Maximum voltage drop	1 V
Switching frequency	<= 40 Hz
Maximum delay first up	100 ms
Maximum delay response	10 ms
Maximum delay recovery	10 ms
Marking	CE
Height	1.73 in (44 mm)
Width	0.71 in (18 mm)
Depth	2.36 in (60 mm)

Environment

Standards	IEC 60947-5-2
Product Certifications	UL
Ambient air temperature for operation	-4…149 °F (-20…65 °C)
Ambient Air Temperature for Storage	-40…176 °F (-40…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	3389110704204
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.57 in (4.0 cm)
Package 1 Width	3.35 in (8.5 cm)
Package 1 Length	3.43 in (8.7 cm)
Package 1 Weight	2.12 oz (60.0 g)
Unit Type of Package 2	S01

Number of Units in Package 2	15
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	5.91 in (15.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	2.58 lb(US) (1.17 kg)
Unit Type of Package 3	S02
Number of Units in Package 3	30
Package 3 Height	5.91 in (15.0 cm)
Package 3 Width	11.81 in (30.0 cm)
Package 3 Length	15.75 in (40.0 cm)
Package 3 Weight	4.93 lb(US) (2.238 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl 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
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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

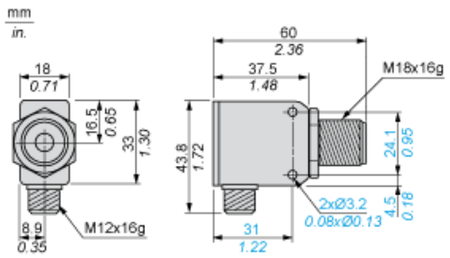
Contractual warranty

Warranty	18 months

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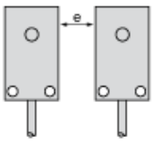
Dimensions Drawings

Dimensions



Minimum Mounting Distances

Side by side

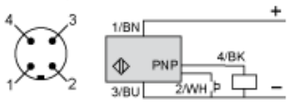


e : respect the distances indicated on the detection curves

Wiring Diagram

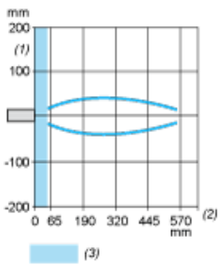
3-Wire Type

NO outputs, PNP



(1) (+)
(2) Teach input (WH)
(3) (-)
(4) Output
BN Brown
WH White
BU Blue
BK Black

Curves



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