

XX7K1A2PAM12

Ultrasonic sensors XX, ultrasonic sensor
parallelepipedic, Sn 0.25 m, NO, M12
connector



Main

Range of Product	Telemecanique Ultrasonic sensors XX
Sensor Type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX7
Sensor design	Flat form 74 x 30 x 16
Detection system	Diffuse
[Sn] nominal sensing distance	0.82 ft (0.25 m) fixed
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 ... 0.83 ft (0.051 ... 0.254 m)
Beam angle	14 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure Material	ULTEM
Front material	Silicone
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.17 ... 0.83 ft (0.051 ... 0.254 m)
Maximum differential travel	0.01 in (0.35 mm)
Blind zone	0.00 ... 2.01 in (0 ... 51 mm)
Transmission frequency	500 kHz
Repeat accuracy	0.7 %
Minimum size of detected object	Cylinder diameter 1.6 mm
Status LED	Supply on 1 LED green) Output state 1 LED yellow)
Current Consumption	60 mA
Maximum switching current	100 mA
Maximum voltage drop	1 V
Switching frequency	<= 80 Hz
Maximum delay first up	350 ms
Maximum delay response	5 ms
Maximum delay recovery	5 ms
Marking	CE
Height	1.18 in (30 mm)
Width	0.67 in (17 mm)
Depth	3.35 in (85 mm)
Net Weight	0.11 lb(US) (0.05 kg)

Environment

Standards	IEC 60947-5-2
Product Certifications	UL
Ambient Air Temperature for Operation	32...122 °F (0...50 °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	US10DS222490
Discount Schedule	0DS2
GTIN	3389110704181
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.60 in (4.06 cm)
Package 1 Width	3.40 in (8.64 cm)
Package 1 Length	3.50 in (8.89 cm)
Package 1 Weight	24.69 oz (700 g)
Unit Type of Package 2	S01
Number of Units in Package 2	15
Package 2 Height	5.91 in (15 cm)
Package 2 Width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	2.69 lb(US) (1.218 kg)
Unit Type of Package 3	S02
Number of Units in Package 3	30
Package 3 Height	5.91 in (15 cm)
Package 3 Width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)
Package 3 Weight	4.97 lb(US) (2.255 kg)

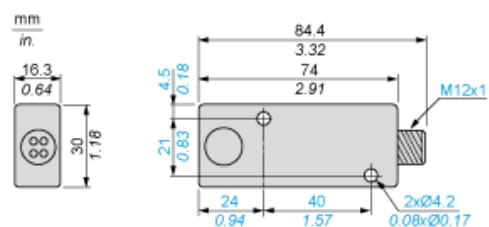
Offer Sustainability

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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

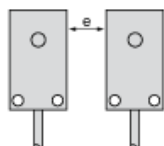
Warranty	18 months
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Dimensions



Minimum Mounting Distances

Side by side

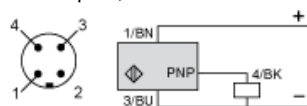


e : respect the distances indicated on the detection curves

Wiring Diagram

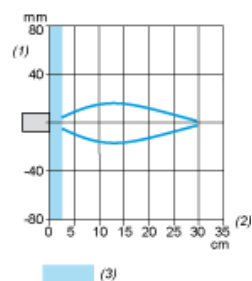
3-Wire Type

NO outputs, PNP



- (1) (+)
- (3) (-)
- (4) Output
- BN Brown
- BU Blue
- BK Black

Curves



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