Product data sheet
Characteristics

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	0.25 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 with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	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	0.051…0.254 m
Maximum differential travel	0.35 mm
Blind zone	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	30 mm
Width	17 mm
Depth	85 mm
Net weight	0.05 kg

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Environment

Standards	IEC 60947-5-2
Product certifications	UL
Ambient air temperature for operation	0…50 °C
Ambient air temperature for storage	-40…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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.06 cm
Package 1 Width	8.64 cm
Package 1 Length	8.89 cm
Package 1 Weight	700 g
Unit Type of Package 2	S01
Number of Units in Package 2	15
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	1.218 kg
Unit Type of Package 3	S02
Number of Units in Package 3	30
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	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
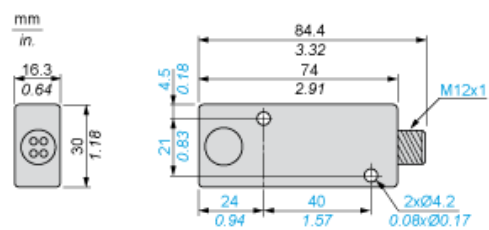
Minimum Mounting Distances

Side by side
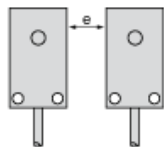
e :   respect the distances indicated on the detection curves

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Wiring Diagram

3-Wire Type

NO outputs, PNP
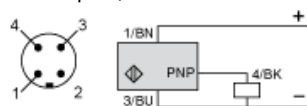
(1)	(+)
(3)	(-)
(4)	Output
BN	Brown
BU	Blue
BK	Black

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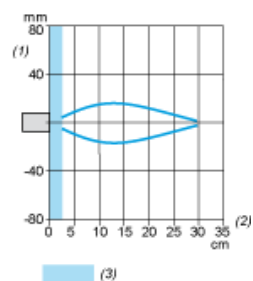
(1)   Parallel movement
(2)   Distance
(3)   Blind zone for diffuse sensors.

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