

Product data sheet

Specifications



Ultrasonic sensors XX, ultrasonic sensor cylindrical M30, Sn 1 m, NO, M12 connector

XX6V3A1PAM12

! Discontinued on: 25 May 2023

! Discontinued

Main

Range of product Telemecanique Ultrasonic sensors XX

Sensor type Ultrasonic sensor

Series name General purpose

Sensor name XX6

Sensor design Cylindrical M30

Detection system Diffuse

[Sn] nominal sensing distance 1 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 with reverse polarity protection

Electrical connection Male connector M12 4 pins

[Sd] sensing range 0.1...1 m

Beam angle 7 °

IP degree of protection IP67 conforming to IEC 60529

Complementary

Enclosure material Valox

Front material Epoxy

Thread type M30 x 1.5

Supply voltage limits 10...28 V DC

[Sa] assured operating distance 0.1...1 m (teach mode)

Maximum differential travel 2.5 mm

Blind zone 0...100 mm

Transmission frequency 180 kHz

Repeat accuracy 0.9 %

Deviation angle from 90° of object to be detected	-7...7 °
Minimum size of detected object	Cylinder diameter 50.8 mm at 1 m
Status LED	Setting-up assistance: 1 LED (dual colour) Supply on: 1 LED (green) Output state: 1 LED (yellow)
Current consumption	60 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	1.5 V
Switching frequency	<= 70 Hz
Maximum delay first up	75 ms
Maximum delay response	15 ms
Maximum delay recovery	75 ms
Marking	CE
Threaded length	37 mm
Height	96 mm
Width	30 mm
Net weight	0.09 kg

Environment

Standards	IEC 60947-5-2
Product certifications	UL cCSAus
Ambient air temperature for operation	0...70 °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	3.0 cm
Package 1 Width	9.525 cm
Package 1 Length	3.0 cm
Package 1 Weight	104.326 g
Unit Type of Package 2	S02
Number of Units in Package 2	18
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm

Package 2 Weight	2.348 kg
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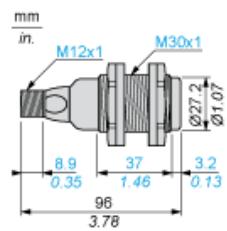
Offer Sustainability

Sustainable offer status	Green Premium product
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
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

Contractual warranty

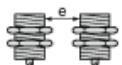
Warranty	18 months
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Dimensions



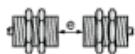
Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

Face to face

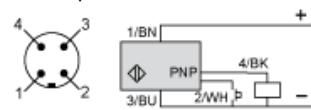


e > 4 x Sn

Wiring Diagram

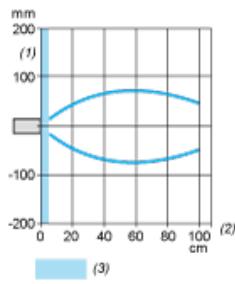
3-Wire Type

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.

Recommended replacement(s)

XX6V3A1PAM12 is replaced by:

1x



Ultrasonic sensors XX, ultrasonic sensor, plastic, cylindrical M30, straight, 1 m, PNP
XXS30P1PM12
