



ultrasonic sensor cylindrical M18 - Sn 0.5 m - NO - M12 connector

XX518A3PAM12

Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX5
Sensor design	Cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	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	1224 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.0510.508 m
Beam angle	6 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	Valox
Front material	Ероху
Thread type	M18 x 1
Supply voltage limits	1028 V DC
[Sa] assured operating distance	0.0510.508 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	051 mm
Transmission frequency	300 kHz
Repeat accuracy	1.27 %

Deviation angle from 90° of object to be detected	-77 °
Minimum size of detected object	Cylinder diameter 2.5 mm at 0.15 m
Status LED	Supply on: 1 LED (green) Output state: 1 LED (yellow)
Current consumption	40 mA
Maximum switching current	100 mA with overload and short-circuit protection
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
Threaded length	43 mm
Height	18 mm
Width	18 mm
Depth	79 mm
Net weight	0.033 kg
Environment	
	UEO 00047 F 0
Standards	IEC 60947-5-2
	UL cCSAus
Standards	UL
Standards Product certifications Ambient air temperature for	UL cCSAus
Standards Product certifications Ambient air temperature for operation Ambient air temperature for	UL cCSAus -2065 °C
Standards Product certifications Ambient air temperature for operation Ambient air temperature for storage	UL cCSAus -2065 °C -4080 °C
Standards Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance	UL cCSAus -2065 °C -4080 °C +/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz)
Standards Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Resistance to electrostatic	UL cCSAus -2065 °C -4080 °C +/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz) 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Standards Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Resistance to electrostatic discharge Resistance to electromagnetic	UL
Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Resistance to electrostatic discharge Resistance to electromagnetic fields Resistance to fast transients	UL cCSAus -2065 °C -4080 °C +/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz) 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 8 kV level 4 conforming to IEC 61000-4-2 10 V/m level 3 conforming to IEC 61000-4-3
Standards Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Resistance to electrostatic discharge Resistance to electromagnetic fields	UL cCSAus -2065 °C -4080 °C +/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz) 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 8 kV level 4 conforming to IEC 61000-4-2 10 V/m level 3 conforming to IEC 61000-4-3
Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Resistance to electrostatic discharge Resistance to electromagnetic fields Resistance to fast transients Packing Units	UL cCSAus -2065 °C -4080 °C +/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz) 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 8 kV level 4 conforming to IEC 61000-4-2 10 V/m level 3 conforming to IEC 61000-4-3 1 kV level 3 conforming to IEC 61000-4-4
Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Resistance to electrostatic discharge Resistance to electromagnetic fields Resistance to fast transients Packing Units Unit Type of Package 1	UL cCSAus -2065 °C -4080 °C +/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz) 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 8 kV level 4 conforming to IEC 61000-4-2 10 V/m level 3 conforming to IEC 61000-4-3 1 kV level 3 conforming to IEC 61000-4-4
Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Resistance to electrostatic discharge Resistance to electromagnetic fields Resistance to fast transients Packing Units Unit Type of Package 1 Number of Units in Package 1	UL cCSAus -2065 °C -4080 °C +/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz) 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 8 kV level 4 conforming to IEC 61000-4-2 10 V/m level 3 conforming to IEC 61000-4-3 1 kV level 3 conforming to IEC 61000-4-4
Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Resistance to electrostatic discharge Resistance to electromagnetic fields Resistance to fast transients Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height	UL cCSAus -2065 °C -4080 °C +/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz) 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 8 kV level 4 conforming to IEC 61000-4-2 10 V/m level 3 conforming to IEC 61000-4-3 1 kV level 3 conforming to IEC 61000-4-4
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Standards Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Resistance to electrostatic discharge Resistance to electromagnetic fields Resistance to fast transients Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width Package 1 Length	UL cCSAus -2065 °C -4080 °C +/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz) 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 8 kV level 4 conforming to IEC 61000-4-2 10 V/m level 3 conforming to IEC 61000-4-3 1 kV level 3 conforming to IEC 61000-4-4 PCE 1 4.0 cm 8.5 cm

40

15.0 cm

30.0 cm

Number of Units in Package 2

Package 2 Height

Package 2 Width

Package 2 Length	40.0 cm		
Package 2 Weight	2.264 kg		
Offer Sustainability			

Offer	Sus	tain	abil	litv

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

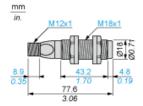
Contractual warranty

Warranty 18 months

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Dimensions Drawings

Dimensions



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Mounting and Clearance

Minimum Mounting Distances

Side by side



e: respect the distances indicated on the detection curves

Face to face



e > 4 x Sn

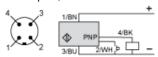
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Connections and Schema

Wiring Diagram

3-Wire Type

NO outputs, PNP

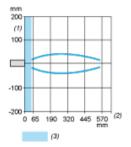


- (+) Teach input (WH)
- (1) (2) (3) (4) BN WH BU BK (-) Output
- Brown White
- Blue Black

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Performance Curves

Curves



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

Recommended replacement(s)