XX518A3PAL2

Ultrasonic sensors XX, ultrasonic sensor cylindrical M18, Sn 0.5 m, NO, cable 2 m



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 by cabling
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	Cable, 2 m cable length
[Sd] sensing range	0.0510.508 m
Beam angle	6 °
IP degree of protection	IP67 conforming to IEC 60529

Enclosure material Valox Front material Epoxy 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 0.7 % 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 (green) Output state: 1 LED (yellow) Current consumption 40 mA Maximum voltage drop 1 V Switching frequency <= 40 Hz Maximum delay first up 100 ms Maximum delay response 10 ms Maximum delay recovery 1000 ms Maximum delay response 10 ms Maximum delay response 10 ms	Complementary	
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 0.7 % 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 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth	Enclosure material	Valox
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Sa assured operating distance 0.0510.508 m (teach mode)	Thread type	M18 x 1
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Blind zone 051 mm Transmission frequency 300 kHz Repeat accuracy 0.7 % 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 1000 ms Maximum delay recovery 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	[Sa] assured operating distance	0.0510.508 m (teach mode)
Transmission frequency Repeat accuracy 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 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width Depth 64 mm	Maximum differential travel	2.5 mm
Repeat accuracy 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 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	Blind zone	051 mm
Deviation angle from 90° of object to be detected	Transmission frequency	300 kHz
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 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	Repeat accuracy	0.7 %
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 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	Deviation angle from 90° of object to be detected	-77 °
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 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	Minimum size of detected object	Cylinder diameter 2.5 mm at 0.15 m
Maximum switching current 100 mA with overload and short-circuit protection 1 V Switching frequency 4= 40 Hz Maximum delay first up 100 ms Maximum delay response 10 ms Maximum delay recovery 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width Depth 64 mm	Status LED	Supply on: 1 LED (green) Output state: 1 LED (yellow)
Maximum voltage drop 1 V Switching frequency <= 40 Hz Maximum delay first up 100 ms Maximum delay response 10 ms Maximum delay recovery 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	Current consumption	40 mA
Switching frequency <= 40 Hz	Maximum switching current	100 mA with overload and short-circuit protection
Maximum delay first up Maximum delay response 10 ms Maximum delay recovery 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width Depth 64 mm	Maximum voltage drop	1 V
Maximum delay response 10 ms Maximum delay recovery 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	Switching frequency	<= 40 Hz
Maximum delay recovery 1000 ms Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	Maximum delay first up	100 ms
Marking CE Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	Maximum delay response	10 ms
Threaded length 44 mm Height 18 mm Width 18 mm Depth 64 mm	Maximum delay recovery	1000 ms
Height 18 mm Width 18 mm Depth 64 mm	Marking	CE
Width 18 mm Depth 64 mm	Threaded length	44 mm
Depth 64 mm	Height	18 mm
	Width	18 mm
Net weight 0.1 kg	Depth	64 mm
	Net weight	0.1 kg

Environment

Standards	IEC 60947-5-2
Product certifications	cCSAus[RETURN]UL
Ambient air temperature for operation	-2065 °C
Ambient air temperature for storage	-4080 °C
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 1055 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

3 - 1 - 1 - 1	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.2 cm
Package 1 Width	18.6 cm
Package 1 Length	18.8 cm
Package 1 Weight	124.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.226 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

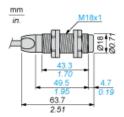
Warranty	18 months
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Product data sheet Dimensions Drawings

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Dimensions



Product data sheet Mounting and Clearance

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Minimum Mounting Distances

Side by side



e: respect the distances indicated on the detection curves

Face to face



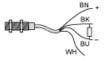
e > 4 x Sn

Product data sheet Connections and Schema

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Wiring Diagram

PNP Output

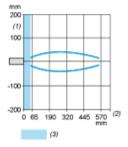


BN Brown WH White BU Blue BK Black

Product data sheet **Performance Curves**

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Curves



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