



Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Sensor name	XX5
Material	Valox
Sensor design	Ø 18 mm
Product specific application	Optimum and universal
Type of output signal	Discrete
Wiring technique	4-wire
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Discrete output function	1 NO or 1 NC
Discrete output type	NPN
Electrical connection	1 male connector M12 4 pins
[Sd] sensing range	50.8...508 mm
Beam angle	5 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Glass epoxy
ISO thread	M18 x 1
Supply voltage limits	10...28 V DC
[Sn] nominal sensing distance	508 mm
Type of sensing window	Adjustable
[Sa] assured operating distance	51...508 mm (teach mode)
Maximum differential travel	2.5 mm
Blind zone	51 mm
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Deviation angle from 90° of object to be detected	-10...10 °
Minimum size of detected object	Cylinder diameter 2.5 mm - up to 254 mm sensing distance
Status LED	Setting-up assistance: 2 LEDs (green/yellow (flashing)) Output state: 2 LEDs (green/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	15 ms
Maximum delay recovery	1000 ms
Marking	CE
Height	18 mm
Width	18 mm
Depth	18 mm
Length	77.62 mm
CAD overall height	0.654 mm
CAD overall width	34.17 mm

CAD overall depth	34.17 mm
Net weight	0.033 kg

Environment

Standards	IEC 60947-5-2
Product certifications	UL
NEMA degree of protection	NEMA 4X (indoor use only)
Ambient air temperature for operation	-30...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	3.97 cm
Package 1 Width	9.525 cm
Package 1 Length	12.7 cm
Package 1 Weight	362.874 g

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 Diisodecyl 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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