

Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Sensor name	XX9
Material	PBT (polybutylene terephthalate)
Sensor design	Ø 18 mm
Product specific application	Analog output
Type of output signal	Analogue
Wiring technique	4-wire
[Us] rated supply voltage	15...24 V DC with reverse polarity protection
Electrical connection	Cable, 2 m cable length
[Sd] sensing range	69.9...101.6 mm
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Silicone
ISO thread	M18 x 1
Supply voltage limits	10...28 V DC
Analogue output range	0...10 V inverse
[Sn] nominal sensing distance	101.6 mm
Sensing window	69.9
Type of sensing window	Fixed
[Sa] assured operating distance	3.18...228.6 mm (no teach mode)
Blind zone	51 mm
Transmission frequency	500 kHz
Repeat accuracy	1.27 %
Minimum size of detected object	Cylinder diameter 1.6 mm - up to 63.5 mm sensing distance
Status LED	Setting-up assistance: 2 LEDs (green/yellow (flashing)) Output state: 2 LEDs (green/yellow)
Current consumption	50 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum switching capacity	1 kOhm with overload and short-circuit protection
Maximum delay response	2.5 ms
Maximum delay recovery	1000 ms
Marking	CE
Height	18 mm
Width	18 mm
Depth	18 mm
Length	64.77 mm
CAD overall height	18 mm
CAD overall width	18 mm
CAD overall depth	18 mm
Net weight	0.17 kg

Environment

Standards	IEC 60947-5-2
Product certifications	UL
NEMA degree of protection	NEMA 4X (indoor use only)
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...100 °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	1.801 cm
Package 1 Width	7.838 cm
Package 1 Length	1.801 cm
Package 1 Weight	226.796 g

Contractual warranty

Warranty	18 months
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