

### Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Sensor name	XX9
Material	PBT (polybutylene terephthalate)
Sensor design	Ø 30 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	1 male connector M12 4 pins
[Sd] sensing range	0.203...8 m
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

### Complementary

Enclosure material	ULTEM
Front material	Glass epoxy
ISO thread	M30 x 1.5
Supply voltage limits	10...28 V DC
Analogue output range	4...20 mA autoslope
[Sn] nominal sensing distance	8 m
Type of sensing window	Adjustable
[Sa] assured operating distance	0.203...8 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	51 mm
Transmission frequency	75 kHz
Repeat accuracy	0.254 %
Deviation angle from 90° of object to be detected	-5...5 °
Minimum size of detected object	Cylinder diameter 50.8 mm - up to 4732 mm sensing distance
Status LED	Output state: 2 LEDs (green/red (flashing)) Setting-up assistance: 2 LEDs (green/red (flashing)) Distance indication: 2 LEDs (yellow)
Current consumption	100 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum switching capacity	10...500 Ohm with overload and short-circuit protection
Maximum delay first up	75 ms
Maximum delay response	2.5 s
Maximum delay recovery	1000 ms
Marking	CE
Height	30 mm
Width	30 mm
Depth	30 mm
Length	117.35 mm
CAD overall height	117.35 mm
CAD overall width	43.18 mm

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

CAD overall depth	43.18 mm
Net weight	0.11 kg

## Environment

Standards	IEC 60947-5-2
Product certifications	UL
NEMA degree of protection	NEMA 4X (indoor use only)
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-10...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	8.412 cm
Package 1 Width	8.412 cm
Package 1 Length	8.412 cm
Package 1 Weight	467.2 g

## Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
----------	-----------