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Series 600 Open Face Ultrasonic Sensor with Parylene

SensComp's Series 600 Open Face Electrostatic Ultrasonic sensor is specifically intended for operation in air at ultrasonic frequencies. This ultrasonic sensor extends the range of applications for electrostatic ultrasonic sensor technology, is Parylene coated, and the outer housing is made of 304 stainless steel for harsh environments.

Features

Open Face Construction
Parylene Coated
50 kHz Electrostatic Ultrasonic sensor
304 Stainless Steel Housing
Narrow Beam Angle of 15° at -6 dB
Low Ring Characteristics

Part No.

*PID# 604144 – Series 600 Open Face Ultrasonic Sensor (with Parylene Coating) *RoHS Compliant

Benefits

Improved Performance In:

- Dusty Environments
- Harsh Chemical Environments

Splash and Moisture Resistant Resistant to Organic and Inorganic Solvents Excellent Receive Sensitivity Able to Range from 6" to 35'

Applications

Level Measurement in Tanks Proximity Detection in Harsh Industrial and Agricultural Environments

Specifications



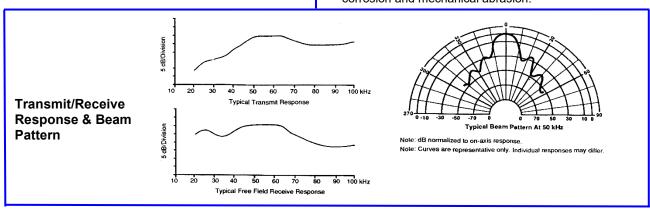




Description

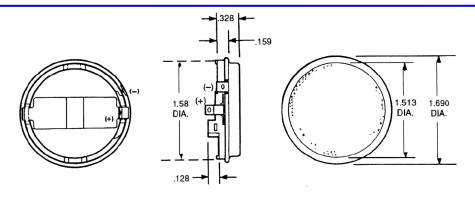
The open face construction of SensComp's Series 600 Ultrasonic sensor minimizes the potential of dust and powdered material collecting on the front face of the ultrasonic sensor.

The added protection of the Parylene conformal coating makes this ultrasonic sensor splash resistant and able to operate more efficiently in harsh chemical environments containing organic and inorganic solvents. Additionally, the Parylene coating provides extended protection against corrosion and mechanical abrasion.



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Specifications

Usable Frequency Range Transmitting See Graph Receiving See Graph Beam Pattern See Graph Typical: 15° at -6dB	Suggested DC Bias Voltage
Transmitting Sensitivity	Operating Temperature40 to +85° C (-40 to 185° F)
Receiving Sensitivity42 dB min at 50.0 kHz; 0dB = 1 volt/Pa (150 VDC bias)	Storage Temperature40 to 120° C (-40 to 250° F) Relative Humidity (non-condensing) 5% - 95% Dimension
Distance Range	Thickness 0.46 inch
Resolution (± 1% over entire range) ± 3mm to 3m (± 0.12 to 10 f Weight	,

Notes:

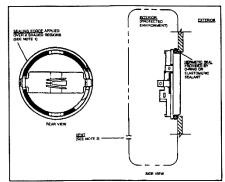
[1] Lines which may occasionally appear in foil have no effect on product functionality or performance.

[2] Variations in die depth may result in minor variations of tolerances.

Environmental Characteristics & Exposures

Note: The following tests were performed in an environmentally controlled test facility with the ultrasonic sensor housed in a custom designed test enclosure. The test enclosure protects the ultrasonic sensor sides and back from exposure to any foreign matter. The rear of the ultrasonic sensor is vented to atmosphere pressure.

After each test, the ultrasonic sensors were cleaned and dried as necessary. Measurements were then taken at room temperature.



No claims are made for performance without an enclosure providing protection equal to or better than the test enclosure described above. Similarly, no claim is made for performance in any other environments or under any other condition than those controlled conditions described herein.

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