SPECIFICATIONS

Best Operating Frequency: 75 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency: 110 dB, 1µPa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency:

Minimum Parallel Resistance: 150 Ω , ±30%

Minimum and Maximum Sensing Range*: 20 cm to 10 m

Typical Sensing Range: 25 cm to 7 m Free (1 kHz) Capacitance: 1,850 pF, ±200 pF Beamwidth (@ -3 dB Full Angle): 14°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 1,000 V_{DD}

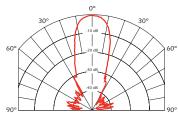
Operating Temperature: -40°C to 90°C

Weight: 50 q

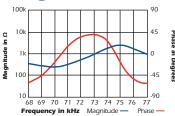
Housing Material: PVDF Acoustic Window: PVDF

*Pulse-Echo Mode. Minimum and maximum ranges are best case scenarios. Actual range may vary, depending on drive circuitry and signal processing.

Directivity Pattern



Impedance Magnitude & Phase



Transmit & Receive Voltage Response

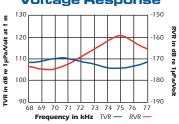
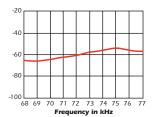


Figure of Merit (Sum of TVR & RVR)



AIRDUCER® Ultrasonic Transducer

Applications

- Level measurement
- Automation control
- Food processing
- Proximity
- Obstacle avoidance
- Robotics

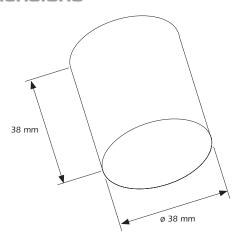
Features

- Rugged one-piece PVDF housing
- Resistant to chemically aggressive environments
- Cylindrical design allows for installation in various applications

Options

Temperature sensor

Dimensions

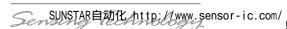


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