SPECIFICATIONS

Best Operating Frequency: 75 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency: 111 dB, 1µPa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency:

Minimum Parallel Resistance: 170 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): 15°, ±2°

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

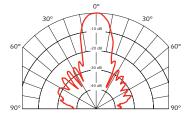
Operating Temperature: -40°C to 90°C

Weight: 45 q

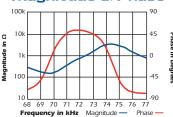
Housing Material: Glass filled polyester Acoustic Window: Glass reinforced epoxy

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

Directivity Pattern



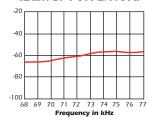
Impedance Magnitude & Phase



Transmit & Receive Voltage Response



Figure of Merit (Sum of TVR & RVR)



AIRDUCER® Ultrasonic Transducer

Applications

- Level measurement
- Open channel flow
- Proximity
- Obstacle avoidance
- Robotics

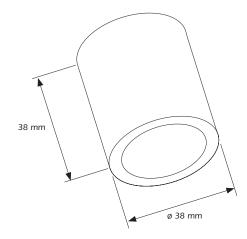
Features

- Rugged sealed construction
- Cylindrical design allows for installation in various applications

Options

- AR style with threaded cap available
- Complete assembly or kit versions

Dimensions





SUNSTAR自动化 http://www.sensor-ic.com/



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