



SPECIFICATIONS

Best Operating Frequency: 30 kHz, $\pm 4\%$

Minimum Transmit Sensitivity at Best Transmit Frequency: 105 dB, 1 $\mu\text{Pa/V}$ at 1 m

Minimum Receive Sensitivity at Best Receive Frequency: -155 dB re 1V/ μPa

Minimum Parallel Resistance: 700 Ω , $\pm 30\%$

Minimum and Maximum Sensing Range*: 60 cm to 30 m

Typical Sensing Range: 80 cm to 25 m

Free (1 kHz) Capacitance: 5,700 pF, $\pm 1,000$ pF

Beamwidth (@ -3 dB Full Angle): 12°, $\pm 2^\circ$

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 2,200 V_{pp}

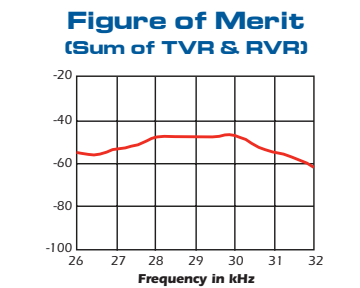
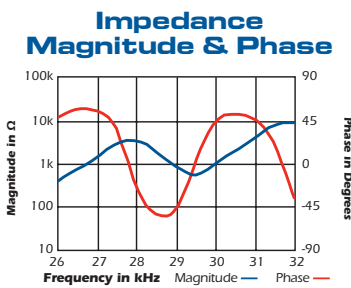
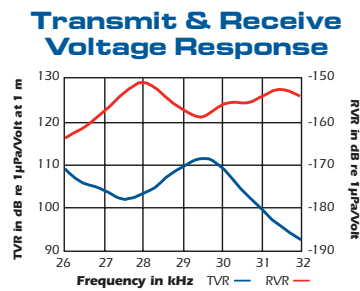
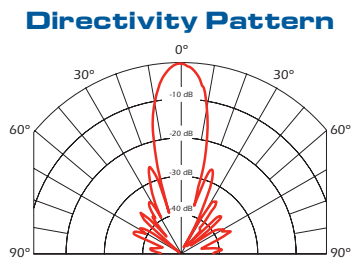
Operating Temperature: -40°C to 90°C

Weight: 800 g

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.



30 kHz AIRDUCER® Ultrasonic Transducer

Applications

- Level measurement
- Proximity
- Obstacle avoidance
- Traffic control

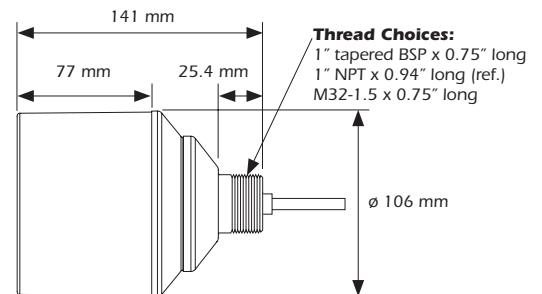
Features

- Rugged sealed construction
- Housing design will accommodate transceiver and signal processing electronics
- Mounting cap available in BSP, NPT, or M32 threads
- Standard internal shielding
- PVDF housing for use in chemically aggressive environments

Options

- Cylinder housing available with mounting cap kit
- Complete assembly available with standard cable lengths
- 10 K Ω thermistors are optional for temperature compensation
- FM approved

Dimensions



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