



SPECIFICATIONS

Best Operating Frequency: 41 kHz, ±4%

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

Minimum Receive Sensitivity at Best Receive Frequency: -160 dB re $1V/\mu$ Pa

Minimum Parallel Resistance: 150 Ω, ±30%

Minimum and Maximum Sensing Range*: 30 cm to 20 m

Typical Sensing Range: 35 cm to 15 m

Free (1 kHz) Capacitance: 5,000 pF, ±500 pF

Beamwidth (@ -3 dB Full Angle): 14°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 1,800 V_{pp} **Operating Temperature:** -40°C to 90°C

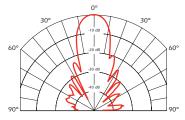
Weight: 560 g

Housing Material: Glass filled polyester

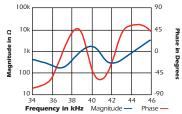
Acoustic Window: Glass reinforced epoxy

*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

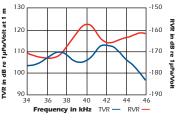
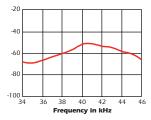


Figure of Merit (Sum of TVR & RVR)



KOHS



Rugged sealed construction

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Applications

Level measurement

Obstacle avoidance

Proximity

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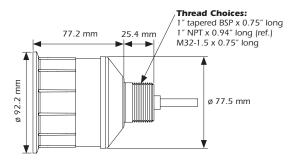
AIRDUCER® Ultrasonic Transducer

- Housing design will accommodate transceiver and signal processing electronics
- Mounting cap available in BSP, NPT, or M32 threads
- Standard internal shielding

Options

- Complete assembly available with standard cable lengths
- 10 KΩ thermistors are optional for temperature compensation
- FM approved

Dimensions



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