

AR30



| SPECIFICATIONS | |
|--|---|
| Best Operating Frequency: | 30 kHz, $\pm 4\%$ |
| Minimum Transmit Sensitivity at Best Transmit Frequency: | 105 dB re $1\mu\text{Pa}/\text{V}$ at 1 m |
| Minimum Receive Sensitivity at Best Receive Frequency: | -155 dB re $1\text{V}/\mu\text{Pa}$ |
| 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, $\pm 20\%$ 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: | 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.

30 kHz

AIRDUCER® Ultrasonic Transducer

Applications

- Level measurement
- Proximity
- Obstacle avoidance
- Traffic control

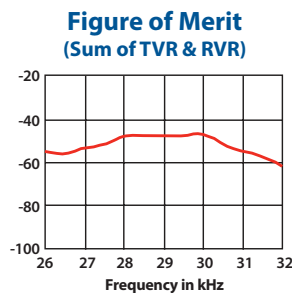
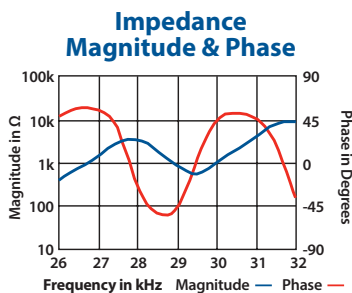
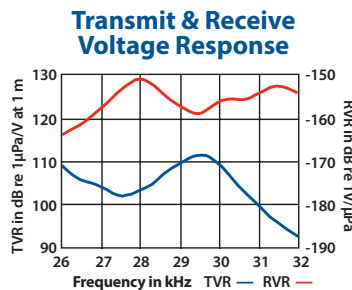
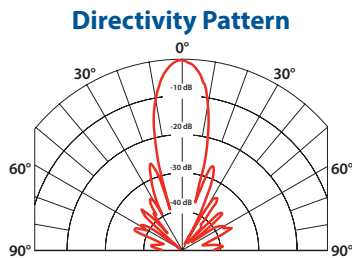
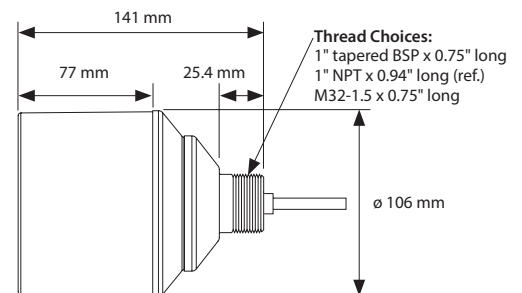
Features

- Rugged sealed construction
- Housing design will accommodate transceiver and signal processing electronics
- Standard internal shielding

Options

- Cylinder housing available with mounting cap kit
- Complete assembly available with standard cable lengths
- Mounting cap available in BSP, NPT, or M32 threads
- 10 K Ω thermistor available for temperature compensation
- Available in PVDF housing for use in chemically aggressive environments
- FM approved

Dimensions



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