

Best Operating Frequency: 30 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency:

105 dB re 1µPa/V at 1 m

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

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

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, ±20% pF Beamwidth (@ -3 dB Full Angle): 12°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 2,200 V

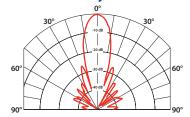
Operating Temperature: -40°C to 90°C

Weight: 800 g

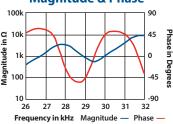
Housing Material: Kynar® 720 Acoustic Window: Kynar® 720

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

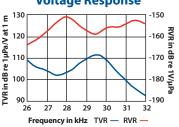
## **Directivity Pattern**



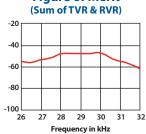
### **Impedance Magnitude & Phase**



#### **Transmit & Receive Voltage Response**



# **Figure of Merit**



## AIRDUCER® Ultrasonic Transducer

## **Applications**

- Level measurement
- Level measurement in chemically aggressive environments
- Food and beverage processing
- · Proximity sensing
- Obstacle avoidance

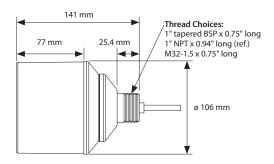
### **Features**

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

## **Options**

- · Complete assembly available with standard cable lengths
- 10 K $\Omega$  thermistor available for temperature compensation
- FM approved
- Mounting caps available in BSP, NPT, or M32 threads

## **Dimensions**



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