

#### **SPECIFICATIONS**

Best Operating Frequency: 75 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/µPa **Minimum Parallel Resistance:** 150 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): 14°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 1,000 V Operating Temperature: -40°C to 90°C

Weight: 250 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.

## **Directivity Pattern**



### Impedance Magnitude & Phase



### Transmit & Receive Voltage Response



### Figure of Merit (Sum of TVR & RVR)



KOHS

COMPLIANT

9001:2000

# kHz AIRDUCER® Ultrasonic Transducer

## Applications

Level measurement in caustic environments

## Features

- Rugged one-piece PVDF housing
- Resistant to chemically aggressive environments
- Cylindrical design allows for installation in various applications

## Options

- Nut—1.5" BSP thread
- Complete assembly available with standard cable lengths
- 10 KΩ thermistors are optional for temperature compensation
- FM approved

# Dimensions



signal processing electronics

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