

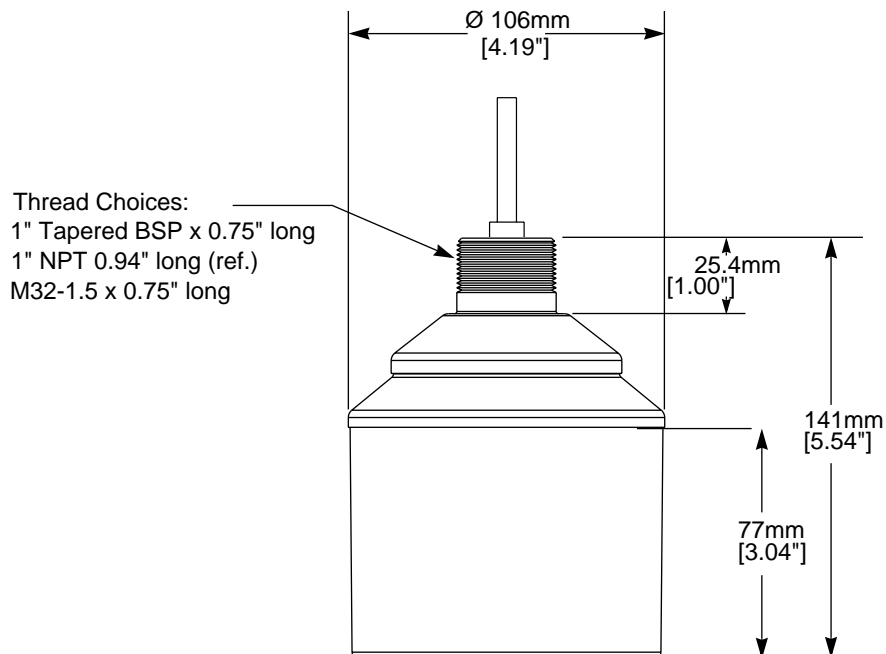
AR30 30kHz

Features:

- Rugged sealed construction
- Housing design will accommodate transceiver and signal processing electronics
- Mounting cap available in BSP, NPT or M32 threads

Options:

- Cylinder housing available with mounting cap kit
- Complete assembly available with standard cable lengths
- 10K Ω thermistors are optional for temperature compensation
- Models in development for use in chemically aggressive environments



Applications:

- Level measurement
- Proximity
- Obstacle avoidance
- Traffic Control

Specifications

Best Operating Frequency: 30kHz +/- 4%

Min. Transmit Sensitivity: 105dB re 1 μ Pa/V at 1m
at best transmit frequency

Min. Receive Sensitivity: -155dB re 1V/ μ Pa
at best receive frequency

Min. Parallel Resistance: 700 Ω +/- 30%

Minimum sensing range: 80cm*

Maximum sensing range: 30m*

Free (1kHz) Capacitance: 5700pF +/- 1000pF

Beam width (-3dB full angle): 12° +/- 2°

Maximum Driving Voltage: 3200 V_{pp}
(2% duty cycle tone burst)

Operating Temperature: -40°C to 90°C

Weight: 800g

Materials:

Housing: Glass filled polyester

Acoustic Window: Glass reinforced epoxy

All specifications typical at 22°C and subject to change without notice.

* Pulse-Echo Mode
Actual range may vary, depending on drive circuitry
and signal processing

DIRECTIVITY

