

A430 Bubble Detector/Air-In Line Sensor



The **A430 Bubble Detector** is one of our standard sensors for use with most 1/4 inch OD tubing. It uses our proprietary digital noninvasive ultrasonic bubble sensing technology to accurately and reliably detect bubbles in a wide variety of fluids in rigid or soft tubing materials. Custom characteristics can be provided for OEM users.

Specifications:

Tube Size:	1/4" OD Nominal
Bubble Size:	Customer Selectable
Sensor Input:	See Product Configuration
Sensor Output:	High: Liquid Low: Air (See Product Configuration)
Response Time:	50 Microseconds (typical)

Lead Out (Typically):

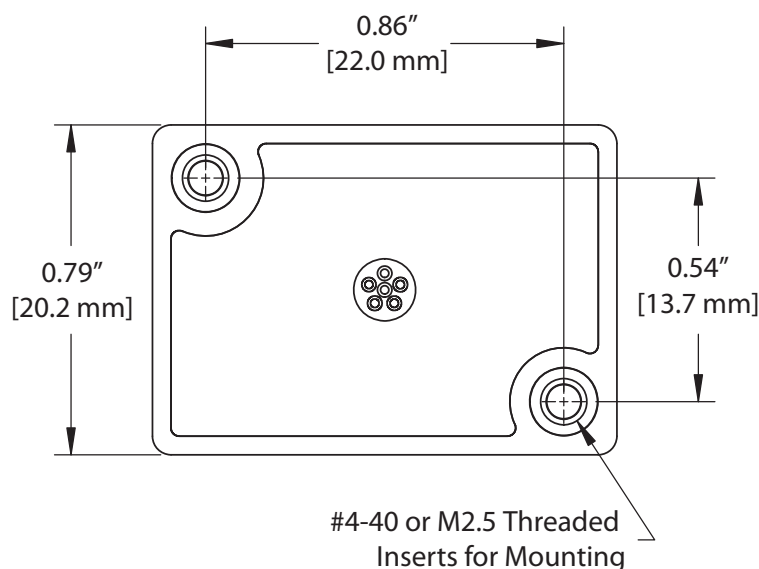
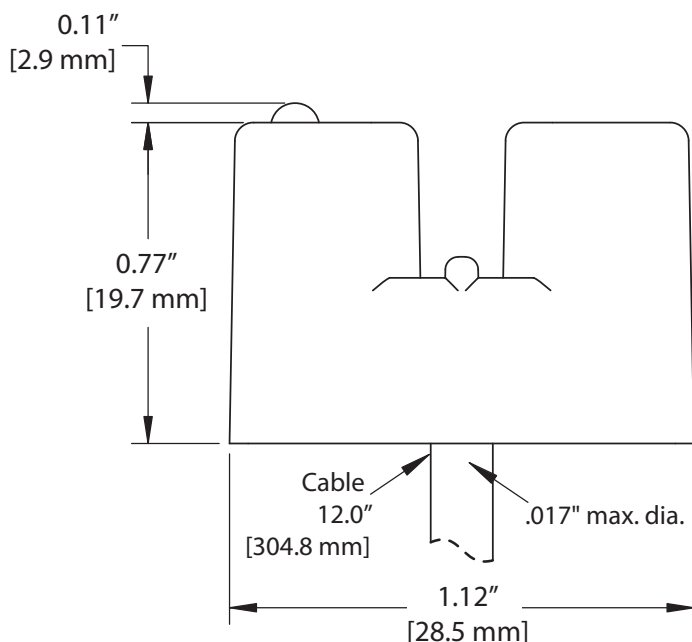
Red:	VCC
Black:	Ground
Green:	Output
White:	Test (Optional)

Features:

- Optional integrated self-test function
- Power consumption as low as 3mA on some models
- Dry-couples with a variety of tubing materials
- Custom pinouts, cables, and connectors available
- Digital "smart" circuit for superior customability
- Noninvasive ultrasonic bubble sensing technology
- Optional red/green LED for visual output indication

Applications:

- Medical Instrumentation
- Semiconductor Processing
- Food Dispensing Equipment
- Chemical Processing
- Pharmaceutical Industry



Product Configuration

A430 - S L T D

Mounting Options

S: #4-40 Threaded Inserts
M: M2.5 Threaded Inserts

LED Configurations

L: With Red/Green LED to indicate output
N: Without Red/Green LED to indicate output

Test Pin Functionality

D: Test Pin Disabled
E: Test Pin Enabled (Contact SMD)

Electronic Configuration

T: Supply Voltage: 5-15 VDC
Output Signal: 5V TTL
High: >4.3 VDC
Low: <0.6 VDC
3mA Max

P: Supply Voltage: 5-24 VDC
Output Signal: PNP/Sourcing
High: >Vsupply - 0.5V
Low: Open, 10K Pull-Down
300mA Max