STRAIN MEASUREMENT DEVICES

ISO9001 Registered

ISO13485 Registered

A130 Bubble Detector/Air-In Line Sensor

The **A130 Air-In-Line/Bubble Detector** is one of SMD's standard sensors for use with most 1/16 inch OD tubing. It uses our proprietary digital non-invasive 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:	1/16" 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)
Material:	Housing: ABS (Black) Tube Interface: TPE (White)

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

Optional Accessories	
Part Number	**Description**
SM8346	Tube Clamp (Holds tube in place)

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

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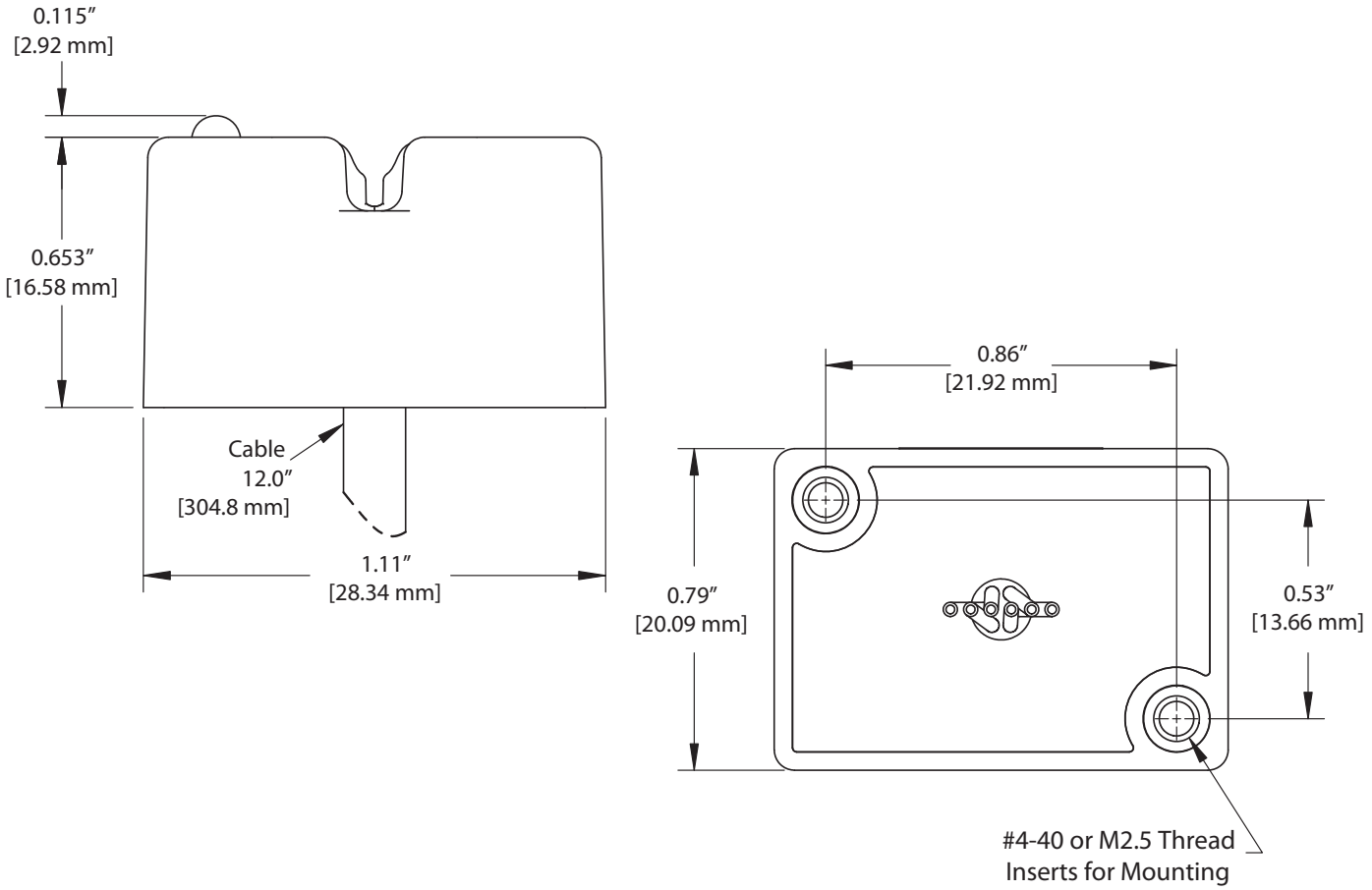

Product Configuration

A130 - 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 ouput

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

Electronic Configuration
T: Supply Voltage: 5-15VDC
Output Signal: 5V TTL
High: >4.3 VDC
Low: <0.6 VDC
300mA Max
P: Supply Voltage: 5-24 VDC
Output Signal: PNP/Sourcing
High: >Vsupply - 0.5V
Low: Open, 10K Pull-Down
300mA Max

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