

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

USA

Strain Measurement Devices

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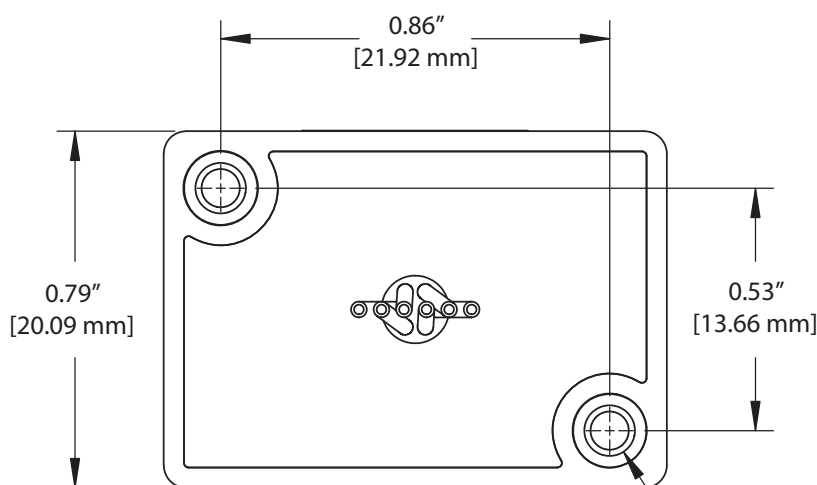
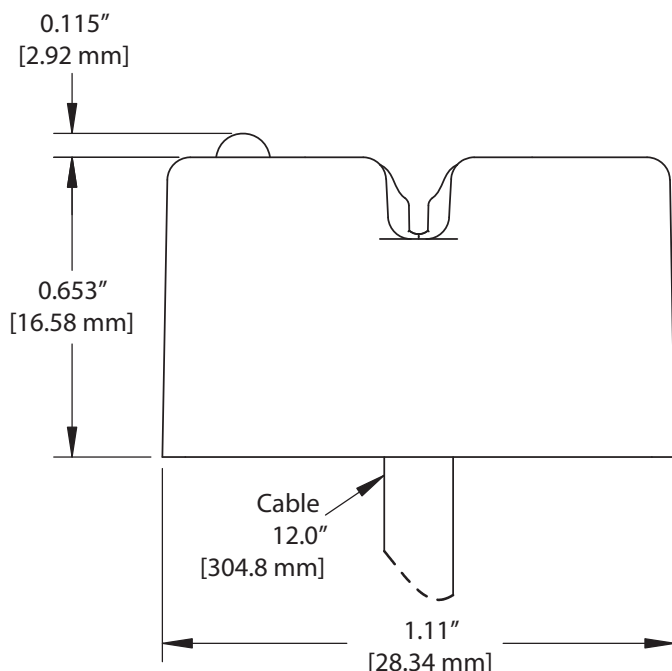
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#4-40 or M2.5 Thread
Inserts for Mounting

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 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