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AD-101 Air Bubble Detector - TE Connectivity / Measurement Specialties


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TE Connectivity / Measurement Specialties AD-101 Air Bubble Detector



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TE Connectivity's (TE) Measurement Specialties AD-101 Air Bubble Detector (ABD) is a compact sensor for non-invasive continuous fluid monitoring for air bubble detection. TE's Measurement Specialties AD-101 uses ultrasonic technology to positively identify the presence of a break in flow of any type of liquid. It detects bubble size as small as 70% of the tubing's inner diameter, operates over a 0°C to 40°C temperature range, and offers a response time of 0.2ms. Applications include infusion pumps, hemodialysis, and blood-flow monitoring.

FEATURES

- Detects bubble size as small as 70% of tubing inner diameter
- Sensor can be customized to fit tube or pipe

- Tubing size from 3mm to 10mm
 - Non-invasive design eliminates sterility and fluid compatibility concerns
 - High noise immunity to EMI/RFI
 - Acoustic coupling agent not required
 - Integral electronics
 - Power-on and continuous self-diagnostic tests to confirm functionality
-

SPECIFICATIONS

- 0°C to +40°C temperature range
 - 0.2ms response time
 - 5V_{DC} to 24V_{DC} input
 - 3.3V TTL Logic output
-


APPLICATIONS

- Infusion pump
- Apheresis/auto-transfusion
- Biotech/DNA Analysis
- Blood processing
- Immunoassay
- Chemical analysis

- Hemodialysis
- IN-VIVO detection of gas
- Hydroponics
- Smart farming
- Food processing


VIDEOS

► TE Connectivity's Measurement Specialties AD-101 Series




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**Ultrasonic sensing,
requires no acoustic
coupling agent**

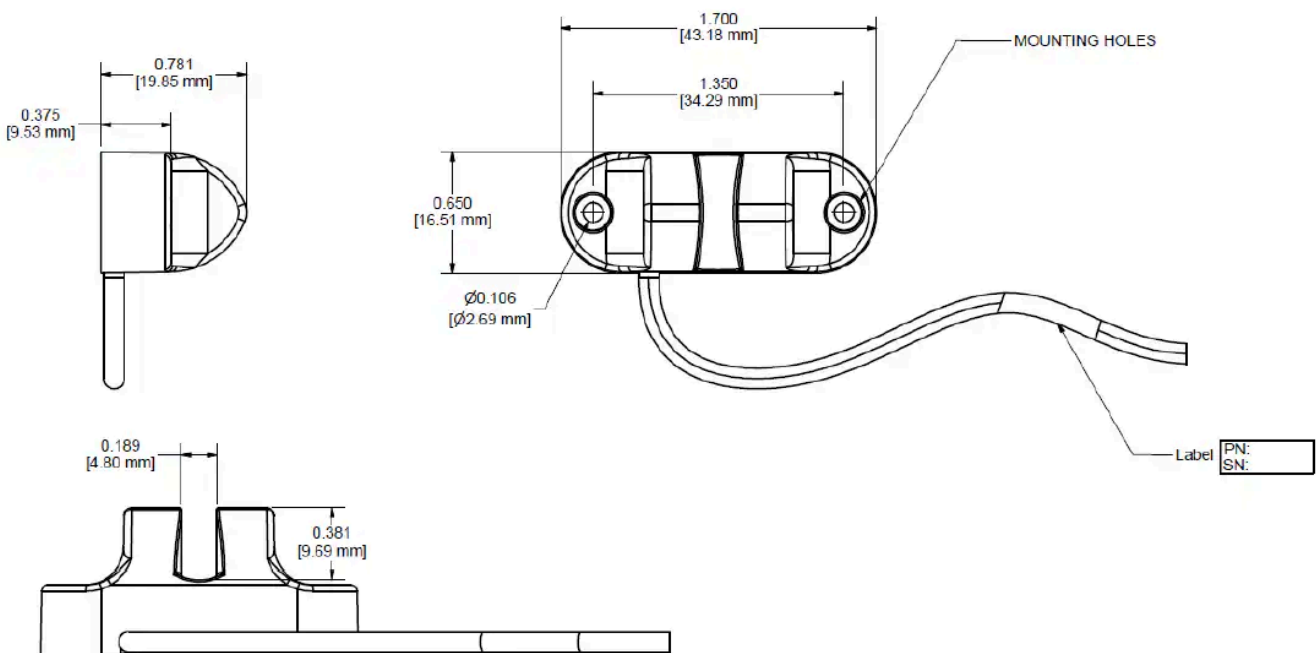


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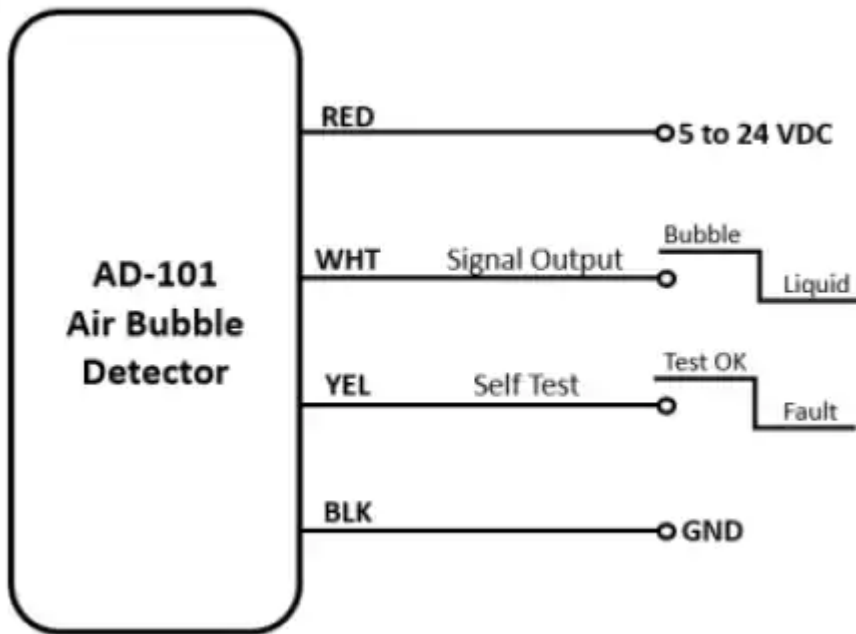
New Product Brief — Presented by Mouser Electronics



DIMENSIONS



SCHEMATIC




Published: 2018-05-03 | Updated: 2023-01-03

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