





TDK SmartSonicâ,,¢ Liquid Level Detection â€" CH101 Available at CDI

# **Description**







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The **TDK InvenSense** CH101-00ABR is a Pulse-Echo product intended for range finding and presence applications using a single sensor for transmit and receive of ultrasonic pulses. The CH101 is a system-in-package that integrates a PMUT (Piezoelectric Micromachined Ultrasonic Transducer) together with an ultra-low-power SoC (system on chip) in a miniature, reflowable package. The SoC runs Chirp's advanced ultrasonic DSP algorithms and includes an integrated microcontroller that provides digital range readings via I2 C. Traditional application include robotics, obstacle avoidance, room lighting automation and proximity/presence sensing.



CH101-00ABR at CDI DK-CH101 at CDI Download Datasheet

## **SmartSonic Demo | Water Level Detection**

Liquid level detection is another application for the **CH101-00ABR**. Watch the YouTube video below to see how the CH101-00ABR is used with the **Design Kit** and the

**DK-CH101** in a liquid dispenser. Unlike other level detection devices, one sensor detects three different measurements one time.

- Has a cup been placed in the determined spot.
  Lighting and the color of the material do not matter to the TDK ultrasonic flight detection sensor.
- 2. The CH101 detects the height of the container.
- 3. As the liquid is filled, in this application it is monitored, and the water turns off at 80% of the height of the contained



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#### **About TDK InvenSense**

**InvenSense, Inc, a TDK Group Company** is part of the Sensor System Business Company within TDK and is the induleader in MEMS Motion, Audio, and Pressure Solutions for the consumer, industrial, automotive, and IoT market segme TDK provides a very robust portfolio of MEMS 3/6/7/9 axis motion sensors, accompanied by the highest performing ME audio microphones, and pressure sensors. TDK continues to push the boundaries of performance and quality; setting no standards of innovation across multiple industries.

#### **About Component Distributors, Inc. (CDI)**

**Component Distributors, Inc. (CDI)** is a value-added distributor of high-performance LED, Power, RF & Microwave, Wireless and Sensor component technologies. CDI distributes globally and provides local application support and custo service across the Americas.

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