



TDK SmartSonic™ Liquid Level Detection CH101 Available at CDI

Description

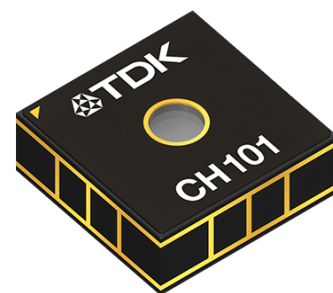
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The **TDK InvenSense CH101-00ABR** is a Pulse-Echo product intended for range finding and presence applications using a single sensor for transmit and receive of ultrasonic pulses. The **CH101** is a system-in-package that integrates a PMUT (Piezoelectric Micromachined Ultrasonic Transducer) together with an ultra-low-power SoC (system on chip) in a miniature, reflowable package. The SoC runs Chirpâ€™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](#)
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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.

1. 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 container.



Request a Quote

CDI works continuously with our vendor partners to connect our customers to products and solutions that accelerate the time to market. CDI will leverage its product knowledge, technical expertise, and evaluation tools to find the right solution for your design.

For more information, or to learn how we can help drive your success, please visit www.cdiweb.com or email us at sales@cdiweb.com.

About TDK InvenSense

InvenSense, Inc, a TDK Group Company is part of the Sensor System Business Company within TDK and is the industry leader in MEMS Motion, Audio, and Pressure Solutions for the consumer, industrial, automotive, and IoT market segments. TDK provides a very robust portfolio of MEMS 3/6/7/9 axis motion sensors, accompanied by the highest performing MEMS audio microphones, and pressure sensors. TDK continues to push the boundaries of performance and quality; setting new standards of innovation across multiple industries.

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