Discrete-to-digital sensing IC includes quad low-side drivers and built-in lightning protection

Holt Integrated Circuits announced the introduction of HI-8425, a new 3.3V octal discrete-to-digital sensing IC with quad low-side drivers and built-in lightning protection. The device is also fully compliant to Airbus ABD0100H. The HI-8425 compliments Holt's HI-8430, which has the same sensing inputs, but features quad high-side drivers.

Eight sensing channels may be configured to detect either GND/Open or 28V/Open, with programmable thresholds and hysteresis. The device operates from a 3.0V to 5.5V supply with sense detection levels from 2V to 21V. In addition, four low-side output drivers are capable of driving 200mA loads. Each individual driver has over-current shutdown protection, with fault detection signaled on external pins.

This type of device may be used in a multitude of aircraft sensing applications, such as "hatch open" and "wheels up" indicators. The built-in driver outputs are ideal for driving relays or display panel warning lights.

"This product provides customers with a flexible, easy-to-use solution for analog voltage sensing," said Anthony Murray, Director of Business Development at Holt. "The additional on-chip lightning protection and low-side drivers minimize component count and give customers an extremely robust, cost effective solution."

The HI-8426 is a more compact version of the HI-8425, with the same functionality

minus individual fault detection pins. Fault detection is still functionally realized in the HI-8426 using a single-pin combined ORed output.

The devices are available in industrial −40oC to +85oC and extended −55oC to +125oC temperature ranges and come in multiple standard package options, including 44-pin PQFQ and compact 40-pin or 32-pin QFNs.

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