32-channel discrete-to-digital sensing IC includes built-in lightning protection

Holt Integrated Circuits today announced the introduction of HI-8435, a new 3.3V, 32-channel, discrete-to-digital sensing IC with SPI interface and built-in lightning protection. The sense input thresholds and hysteresis are programmable via the 20MHz SPI bus and all 32 sense output states may be read with a single SPI command. The device is also fully compliant to Airbus ABD0100H.

The 32 sensing channels are divided into 4 banks of 8 inputs, with each bank configurable over the SPI bus to detect either GND/Open or 28V/ Open signals. Thresholds and hysteresis are programmable in 0.5V steps from 2V to 21V, with GND/Open and 28V/Open input banks independently configurable.

This type of device may be used in a multitude of aircraft sensing applications, such as “hatch open” and “wheels up” indicators. Customers may easily implement a 32-channel solution using a single device or increase the number of channels by controlling a number of devices on a single SPI bus using individual chip-selects.

The device is available in industrial −40oC to +85oC and extended −55oC to +125oC temperature ranges and comes in multiple standard package options, including 44-pin PQFP and compact 7mm x 7mm 44-pin QFN.

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