

Press Information No. 1617_E
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Micronas presents a new entry-level sensor solution with advanced diagnostic capabilities

The HAL 1860 is a value-optimized linear Hall-effect sensor with a ratiometric analog output targeting small stroke rotary and distance measurements for automotive or industrial use.

Freiburg, September 22, 2016 – Micronas, a TDK group company, expands its Hall-effect sensor HAL 18xy family with the HAL 1860, a small, robust and cost-effective solution with output signal supervision capabilities. Several programmable output signal clamping levels extend error signaling capabilities to indicate various fault conditions like under/overvoltage, under/overflow of the signal path, or overcurrent. A one-pin programming interface enables simultaneous programming of several devices through the output pins. Other major sensor characteristics like magnetic field range, sensitivity, offset and temperature coefficients are programmable in a non-volatile memory.

“The small package and the protection functions of our new HAL 1860 sensor are perfectly suited for space constrained and harsh environments. The type of diagnostic and clamping used to enhance the signal integrity are usually found on higher-end devices. Furthermore, our customers will improve productivity thanks to our programming interface enabling the sensor performances to be optimized at the end of their production line. “You clearly get more for less!”, says Matthieu Rezé, Product Marketing Manager at Micronas.

Thanks to the aforementioned benefits, the HAL 1860 is the optimal system solution to measure small angle (<90°) or linear displacement (few mm) in stringent applications. For example, it can be used as gear position detection sensor in dual clutch automatic transmission or steering torque sensor for industrial/recreational vehicles.

The HAL 1860 is qualified according to AEC-Q100 and is packaged in an industry standard 3-pin TO92-UA, lead (Pb) free, with matte tin leadframe plating. It comes with two lead forming configurations: an inline version with 1.27 mm pin-to-pin spacing or alternatively a spread version with 2.54 mm pin-to-pin spacing, better suited for welding process.

Samples are available now. Start of production is planned for early 2017.

Micronas will present the HAL 1860 from November 8 to 11 at the Electronica exhibition in Munich (hall A6, booth 219).

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About Micronas

Micronas, a TDK group company, is the most preferred partner for sensing and control. Micronas serves all major automotive electronics customers worldwide, many of them in long-term partnerships for lasting success. While the holding company is headquartered in Zurich (Switzerland), operational headquarters are based in Freiburg (Germany). Currently, the Micronas Group employs around 900 persons. For more information about Micronas and its products, please visit www.micronas.com.

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press release