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New Product Announcement

Analog Devices ADA4571 Magnetoresistive Sensor for Precision DC Motor Control Now at Mouser

May 11, 2015 – Mouser Electronics, Inc., the global authorized distributor with the newest semiconductors and electronic components, is now stocking the ADA4571 Integrated AMR Angle Magnetic Sensor and Signal Conditioner from Analog Devices. Consisting of both an Anisotropic Magneto-Resistive sensor and a fixed gain instrumentation amplifier, the ADA4571 is one of the industry's highest precision, highest speed magnetic angle sensors that is four times more accurate, 60 percent faster, and 40 percent more power efficient than competing angle sensor solutions. The ADA4571 is specifically designed to measure the motor shaft position in brushless DC motors while reducing noise and increasing torque, while meeting new tighter environmental, noise and energy requirements.

The Analog Devices' ADA4571 Integrated AMR Angle Magnetic Sensor and Signal Conditioner, available from Mouser Electronics, is a signal-conditioning and sensing element IC based on Anisotropic Magneto-Resistive (AMR) technology. The device provides direct, non-contact and wear-free angle measurements with a maximum low angular error of 0.5 degrees. A position feedback loop enables more effective torque and speed control in a wide range of brushless DC motor control applications. The ADA4571 supports high-speed motor operation up to 50,000 RPM, and the sensor's direct angle measurement helps reduce vibration and noise that can degrade DC motor performance. In rugged applications such as industrial servo motors, factory robotics, and electric power steering, the ADA4571's 2µs low-phase delay and torque control provides rapid closed-loop response which improves efficiency, lowers emissions, and reduces heat, resulting in an extended operating life for the system.

The integrated AMR coupled with Analog Devices' precision signal conditioning technology allows the ADA4571 to maintain high-accuracy in noisy environments. The sensor's low temperature and lifetime-drift performance eliminates the need for calibration. The Analog Devices' ADA4571 operates over -40°C to +150°C, and requires a 2.7 V to 5.5 V power supply that consumes just 6.5 mA of power. A sleep mode is useful in low power applications, and the sensor also supports advanced diagnostics for use in safety critical applications.

Mouser Electronics in currently stocking the ADI ADA4571 in an 8-lead SOIC package. The device is ideally suited for industrial applications that require both linear and angle absolute position measurement, including brushless DC motor control and positioning, actuator control and positioning, contactless angular measurement and detection, and magnetic angular position sensing.

To learn more, visit http://www.mouser.com/new/Analog-Devices/adi-ada4571-sensor/.

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With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 20 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 500,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit http://www.mouser.com.

About Analog Devices

Analog Devices has built one of the longest standing, highest growth companies within the technology sector utilizing cultural pillars such as innovation, performance, and excellence. Acknowledged industry-wide as the world leader in data conversion and signal conditioning technology, Analog Devices serves over 100,000 customers, representing virtually all types of electronic equipment. Celebrating over 40 years as a leading global manufacturer of high-performance integrated circuits used in analog and digital signal processing applications, Analog Devices is headquartered in Norwood, Massachusetts, with design and manufacturing facilities throughout the world. Analog Devices' is included in the S&P 500 Index.

Trademarks

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