

New Product Announcement

ams AS5170 Magnetic Angular Position Sensors for Automotive Applications Now at Mouser

July 7, 2016 – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the [AS5170](#) magnetic angular position sensors from [ams](#). The AS5170 devices are ams' first magnetic position sensors fully developed using the automotive industry's program for ISO 26262 safety compliance to meet the ever-increasing demand for [automotive](#) safety features built into critical vehicle systems.

The [ams AS5170](#) sensors, available from Mouser Electronics, are ams' first magnetic position sensors to provide full data path diagnostics, enabling automotive system OEMs to achieve a higher level of ISO 26262 system-level compliance. The diagnostic system built into the AS5170 devices tests the entire device, from the Hall sensor front end, through the DSP engine, to the back-end interfaces and pins.

The AS5170 sensors are qualified to AEC-Q100 Grade 0, and accurately measure the absolute angle of rotation. Their high, 12-bit output resolution enables precise measurements, even for reduced angular excursions down to a minimum arc of 90 degrees, making the devices ideal for a range of safety-critical automotive applications including chassis height, gear shifters, [electronic power steering](#), exhaust gas recirculation, and [brake pedal](#) as well as throttle position sensing.

The AS5170 sensors can benefit from stray magnetic field immunity, enabling unimpaired operation even in the presence of strong magnetic fields generated by [electric motors](#), high current-carrying cables and other external devices. This results in highly reliable performance and reduces system cost eliminating the need for the shielding.

The AS5170 sensors are available in an 8-pin SOIC package with either analog ratiometric (AS5170A) or digital PWM or SENT (AS5170B) output interfaces.

To learn more, visit <http://www.mouser.com/new/ams/ams-as5170-as5171/>.

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 22 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 600 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 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About ams

ams is a global leader in the design and manufacture of advanced sensor solutions and analog ICs. The company's mission is to shape the world with sensor solutions by providing a seamless interface between humans and technology. ams' high-performance analog products drive applications requiring extreme precision, dynamic range, sensitivity, and ultra-low power consumption. Products include sensors, sensor interfaces, power management and wireless ICs for consumer, communications, industrial, medical, and automotive markets.

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