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*Versatile linear position sensor features rugged IP67 environmental sealing...*

## **MTS TEMPOSONICS<sup>®</sup> INTRODUCES ROD & CYLINDER STYLE MAGNETOSTRICTIVE SENSOR**

CARY, N.C. (November 12, 2004) — MTS Systems Corp. Sensors Division recently developed a unique “rod & cylinder” style linear sensor for hydraulic and pneumatic cylinder and machine positioning applications. Designated the Temposonics<sup>®</sup> ER Sensor, this design represents the newest addition to the E-Series family of accurate and reliable position sensors.

MTS Temposonics remains the only sensor manufacturer in the market to offer this rod & cylinder style of magnetostriuctive sensors. The ER sensor provides the superior performance Temposonics users have come to expect in a small, robust package and a price that is ideal for machine control and factory automation designers.

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## MTS TEMPOSONICS® INTRODUCES ROD & CYLINDER STYLE SENSOR, PAGE 2

“We designed the ER sensor to answer the market’s need for a high performance, competitively priced replacement for linear potentiometer technology in applications where non-contact feedback is essential,” explained Temposonics Marketing Manager, David Edeal. “The benefits of magnetostrictive feedback have long outweighed potentiometers, but overall cost has been an obstacle. By utilizing next generation E-Series electronics, the ER sensor is an ideal fit for position feedback applications.”

The ER sensor features a unique rod & cylinder design with a “sensing rod” that can extend and retract fully into and out of the sensor housing. The sensing magnet is completely contained and protected at all times, to provide a durable sensor performance. The ER sensor performs well under harsh conditions due to the IP67 sealing for both the sensor and rod. The sensor also features over-voltage protection to 36 Vdc and reverse polarity protection to 30 Vdc on input voltage connections and the integral DIN connector is CE certified for use in rugged environments.

Other new ER sensor features and capabilities include an extended stroke length to 1500 mm, and several mounting options, with mounting feet slots on three sides of the sensor, to offer a simple, yet versatile installation process. The entire sensor can be mounted to the machine using standard mounting feet and screws that can be easily adjusted to the desired integral connector and extension cable orientation. Rod end mounting options help to simplify sensor installation design and facilitate articulated motion sensing.

Applications for the ER sensor include hydraulic/pneumatic cylinder positioning for factory automation and machines. The sensor housing can be fixed to the machine and rod and then conveniently attached to platen for injection molding, presses, die casting, wood finishing and general packaging machines. The rod end mounting design also facilitates non-linear motion sensing for swinging door applications. The new sensor parameter upload feature found in all E-Series sensors means that the ER is ready to use in today’s smart sensor interfaces often found in these applications.

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**MTS TEMPOSONICS® INTRODUCES ROD & CYLINDER STYLE SENSOR, PAGE 3**

For more information on Temposonics E-Series Sensors, please contact: MTS Systems Corp, Sensors Division, 3001 Sheldon Drive, Cary, NC 27513. Phone: (919) 677-0100. E-mail:[displacement@mtssensors.com](mailto:displacement@mtssensors.com).

MTS Systems Corporation is the world leader in magnetostrictive linear displacement technology. MTS Systems Corporation is a global operation, with facilities in the U.S., Germany and Japan. In the U.S., the MTS Sensors Division has an ISO 9001 facility manufacturing rugged and reliable Temposonics position sensors as well as the highly repeatable and accurate Level Plus transmitters and gauges. With a strong commitment to research and development, product quality and customer service, the Sensors Division is constantly seeking ways to bring the highest value to customers.

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*To request the electronic image, call 919-872-8172, or e-mail [rbunnell@btbmarketing.com](mailto:rbunnell@btbmarketing.com)*