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New packaging enables magnetostrictive sensing at potentiometer prices...

MTS SENSORS PROVIDES COST COMPETITIVE IP65 SENSOR FOR COMMERCIAL APPLICATIONS

CARY, N.C. (May 13, 2003) — MTS Sensors Division, announces low-cost Temposonics® magnetostrictive position sensors for high-volume commercial applications. The CSPR module is IP65 rated and ideal for rugged applications. The SE (sensing element) module is the basis for all custom sensing applications and may be purchased separately for under \$10 in volume. The sensors are designed to compete with less precise contacting potentiometer technology.

“For a long time magnetostrictive sensors were not an option for designers because of cost,” said Commercial Products Manager, Jesse Russell. “Now because of MTS’ high-volume manufacturing techniques, magnetostrictive sensors are a viable option. Can you imagine a magnetostrictive sensor for under \$50, under \$30, under \$10? Now it is possible.”

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MTS SENSORS PROVIDES COST COMPETITIVE IP65 SENSOR FOR COMMERCIAL APPLICATIONS, PG.2

The robust, small sized sensors are designed to provide non-contacting, accurate position sensing with a small footprint and remote electronics. The IP65 plastic CSPR model SE is housed in a metal sensor tube for robustness and is shielded to prevent signal interruption. Each sensor provides custom length electrical “pigtailed” so a connector of the engineer's choice can be added, or the sensor can be wired directly to the controller. The sensor is manufactured with standard metal tab plates for easy installation, but can also be custom designed. Sensor length may measure up to 250mm. Standard stroke lengths are 72.3, 104.3, 109.5, 128.3, 148.0, 162.3, 186.3, 192.3, 194.3, 217.3 and 250.1mm. Temperature range for the IP65 model is -30°C to +85°C.

Each sensor has analog and PWM (Pulse Width Modulated) outputs. The remote package design houses the electronics up to a meter away from the sensing element thereby reducing the overall sensor size and footprint.

Temposonics' traditional performance coupled with this low cost solution allows the high volume product design engineer an alternative solution suitable for leading edge position control projects such as in medical mobility, diagnostic care or treatment devices; marine steering and trim; agricultural and construction equipment articulation control; appliance control; over-the-road mobile equipment applications; automotive suspension, steering and transmission systems and others.

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MTS SENSORS PROVIDES COST COMPETITIVE IP65 SENSOR FOR COMMERCIAL APPLICATIONS, PG.3

For more information on the direct mount transmitter display, visit the MTS Sensors Level Plus at WWW.MTSCOMMERCIALSENSORS.COM or contact: Jesse Russell, MTS Sensors Group, Temposonics Commercial Sensors at JESSE.RUSSELL@MTS.COM or 3001 Sheldon Drive, Cary, NC 27513 or call 910-677-0100, fax (919) 677-0200.

MTS Systems Corporation is the world leader in magnetostrictive 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 highly repeatable and accurate Level Plus transmitters as well as the rugged and reliable Temposonics position sensors. 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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