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Magnetostrictive technology ensures quality in end-products...

**MTS SENSORS' LINEAR POSITION SENSORS PROVIDE
PRECISE FEEDBACK IN HYDRAULIC LEVELERS**

CARY, N.C. (May 7, 2008) – MTS Systems Corp., Sensors Division's Temposonics® linear-position sensors provide high accuracy for repeatability and uniform production quality in hydraulic roller leveling applications. The magnetostrictive sensors can be embedded inside the hydraulic cylinders or affixed outside the cylinders that control the leveling machine movement for producing metal plates and slabs. The MTS linear position sensor is an ideal fit for this application because it offers high accuracy that ensures consistency and repeatability, which is critical for supplying metal to industries such as aerospace, military, automotive, and transportation.

“The main function of the R-Series SSI sensor in leveling is ensuring the precise position of the rolls throughout the leveling process in order to produce a smooth, flat slab that is level and within end-user specification,” said Temposonics Marketing Manager, Matt Hankinson. “The R-Series’ superior response and accuracy result in higher machine performance and part quality.”

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The rugged, reliable, non-contact sensor construction results in reduced maintenance and down time, while high shock and vibration tolerance and superior EMI and noise immunity ensure trouble-free operation. The sensors also enable customers to store pre-set configurations for a wide variety of product shapes and sizes, reducing startup and changeover times.

By optimizing the hydraulic rolling leveler's performance, MTS' magnetostrictive linear position sensors offer superior accuracy with higher consistency between changeovers and reduced setup time; precise and repeatable positioning for smoother, more controlled motion; and improved efficiency, yield, and throughput while maintaining quality. This results in higher overall productivity to the machine operator.

The R-Series SSI sensor provides the same absolute serial encoder interface (Synchronous Serial Interface) widely used in the servocontrol industry. Design flexibility and field adjustability of data format, position resolution, and polarity and synchronization parameters are facilitated through the use of an easy-to-use PC interface programming software. This flexibility allows controls engineers to accommodate a range of control interfaces and mechanical system variations within a common location, thereby helping to reduce sensor inventory.

The SSI output of the R-Series sensor product is fast, with an optional data update rate of 250 μ sec synchronized with an external control clock. MTS' proprietary synchronization technology guarantees the most accurate position output while minimizing inherent system-related delays to produce smooth, precise control. The R-Series SSI product features position sensing resolution as low as 1 micron (0.00004 in), which is factory or field-adjustable. For higher accuracy requirements, an optional internal linearization improves the sensing accuracy to as low as $\pm 20 \mu$ m, depending on the mechanical application package.

The Temposonics model RH rod-style sensors are designed for internal mounting in applications where high-pressure conditions exist (5,000 psi continuous/ 10,000 psi spike), such as hydraulic cylinders, and come in stroke lengths up to 7.6 m (300 inch.). With its unique electronics removable cartridge design, the model RH sensor offer users

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the ability to replace the sensing electronics in the field quickly and easily without the need to remove the sensor housing and break the high-pressure hydraulic seal.

Model RP “profile”-style sensors utilize a lightweight but rigid aluminum extrusion with sensing lengths of up to 5 m (200 inch.) and include two different magnet-mounting configurations: captive sliding magnet or floating magnet. The IP 67-rated RP-style sensors are used in applications where installation inside a hydraulic or pneumatic cylinder is not possible. They are well-suited for space-restrictive environments where there are high levels of dust and contamination. In addition, RP-style sensors can be externally mounted on machines via mounting brackets and configured with a variety of connector options.

Temposonics hydraulic-style sensors are pre-configured at the factory by model code designation. For most applications, no adjustments are required for normal sensor installation and operation, but if sensor parameters need to be changed on-site, the sensors are easy to program using one of three options – handheld or cabinet mounted pushbutton programmers or PC software programming kits depending on the user’s needs.

For more information on Temposonics Sensors, please contact: MTS Systems Corp, Sensors Division, 3001 Sheldon Drive, Cary, NC 27513. Phone: (919) 677-0100. E-mail: info@mtssensors.com or visit their web site at <http://www.mtssensors.com>. MTS Sensors, a division of MTS Systems Corp., is the global leader in the development and production of magnetostrictive linear-position and liquid-level sensors. Based on MTS’ patented Temposonics® technology, the Sensors Division is continually developing new ways to apply magnetostrictive sensing technology to solve critical applications in a variety of markets worldwide. With facilities in the U.S., Germany and Japan, MTS Sensors Division is an ISO 9001 certified supplier committed to providing innovative sensing solutions that deliver customers with reliable, cost effective sensing devices.

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