



MTS Systems Corporation
Sensors Division
3001 Sheldon Drive
Cary, NC 27513
Phone: +1-919-677-0100 / Fax: +1-919-677-0200

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For More Information, Contact:
Hub vom Berg
MTS Sensors Division
Technical Marketing Manager MH
Tel: +1-919-677-2370
e-mail: hub.vomberg@mts.com
<http://www.mtssensors.com>

MTS SENSORS INTRODUCES NEW SENSOR FOR HYDRAULIC CYLINDERS USED IN STEERING OFF-ROAD EQUIPMENT

CARY, NC (March 16, 2011) - MTS has extended its product portfolio of magnetostrictive position sensors for mobile hydraulics with the new Temposonics® Model MB stainless steel sensor. The unit has been developed specially for external attachment to a hydraulic cylinder, and can be used in applications such as steer-by-wire. With its compact dimension and an M14 x 1.5 thread, the sensor is suitable for mounting on double-acting steering cylinders. The magnet is integrated into the piston and transmits the position through a non-ferrous cylinder wall to the sensor. By using two externally mounted sensors, they can function in a redundant capacity to meet stringent safety requirements.

Apart from easy external mounting on the double rod cylinder, the Model MB sensor is also suitable for direct screw installation in differential cylinders. In this type of installation, a ring magnet mounted on the piston slides over the sensor rod and marks the position. Thus, the Model MB sensor offers the flexibility to either thread the sensor into the cylinder, or to attach it on the outside. Additional M-Series sensor models are available that allow the sensor to be embedded in the hydraulic cylinder, permitting complete cylinder integration.

The Temposonics® MB position sensor is available with 12 V supply for a measuring range of 72 - 250 mm and designed for large-scale integration in the mobile hydraulics industry. Its compact size makes it easy to install and the sensor's absolute, non-contact position measurement ensures a long service life. By utilizing a direct, analog voltage output, the sensor is able to provide a high-accuracy position feedback with a linearity of $< \pm 0.25$. Due to the high signal-to-noise ratio, the sensor also has a high-survivability rating with a 100 g single shock rating, as well as a vibration profile that meets the ISO 16750-3 specification. Furthermore, the protection type IP 69K ensures that the electrical connection is absolutely dust and watertight.

For more information about Temposonics linear-position sensors and liquid-level measurement, please contact: MTS Systems Corp., Sensors Division, 3001 Sheldon Drive, Cary, NC 27513. Phone: +1-919-677-0100, E-mail: sensorsinfo@mts.com or visit <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. MTS' Sensors Division is continually developing new ways to apply Temposonics® magnetostrictive sensing technology to solve critical applications in a variety of markets worldwide. With facilities in the U.S., Germany, Japan and China, MTS Sensors Division is an ISO 9001 certified supplier committed to providing our customers with innovative sensing products that deliver reliable, cost-effective sensing solutions.