

DIGITAL OUTPUT OPTIONS ADDED

J1939 and CANopen position sensors for hydraulic cylinders

MTS Sensors announced the expansion of its MH Threaded externally installed magnetostrictive linear position sensors. CAN digital output formats including CANopen and J1939 were added.



The sensor is optimized for off-highway applications such as loaders, telehandlers, and aerial work platforms (Source: MTS Sensors)

“MTS Sensors’ customers have seen a great deal of success with the analog output versions of the MH Threaded sensors, and the number one request has been to make a CAN version available,” stated Luka Korzeniowski, MTS Sensors’ Global Market Segment Leader. “The speed, flexibility, and reliability of CANb has allowed it to rapidly evolve well beyond the automotive industry where it was first widely implemented to a growing number of off-highway applications. Today, MTS Sensors are delivering a version of the popular MH Threaded sensor with CAN digital outputs such as CANopen and J1939.”

“The MH series sensors offer a robust alternative to contact-based linear sensors such as potentiometers - thereby prolonging the working lifespan,” continued

Korzeniowski “The MH Threaded sensor extends the rugged design of the Temposonics MH series sensors to external threaded installations. The sensor can withstand harsh environments but still be serviced easily when needed.”

The sensor series with proprietary Temposonics magnetostrictive technology are not vulnerable to vibration, shock, dust, and electro-magnetic interference. Instead of installing the sensor completely inside of the cylinder, the sensor offers the ability to mount by threading the housing from the outside. It then still maintains the ability to measure the position of the rod in the hydraulic cylinder. This design allows the user to thread the sensor into place or remove the sensor from the vehicle without having to disassemble the cylinder cap, explained the company.

If there is enough clearance on the vehicle, the sensor can be removed without the need to decouple the cylinder from its mounting fixtures. In addition to cylinders, the sensor can also be fitted with an optional float where it can be used to measure the amount of liquid in a tank such as the level of liquid fertilizer in an agricultural sprayer. The sensor is available in multiple configurations with stroke lengths up to 2,5 m and either M18 or ¾-inch-16 threads.

Following the founding in 1966, the company developed into a supplier of test and simulation systems and magnetostrictive sensor technology. Today it has about 3 400 employees worldwide and offers solutions for companies from the automotive industry, aerospace equipment, manufacturing, medical companies, research institutes, and original equipment manufacturers. MTS Sensors is a division of MTS Systems.

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