

SENSOR PRODUCTS



Date of Release: June 20, 2012

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TURCK Rotary Single Axis CANopen Inclinometer Delivers 360 Degree Angle Monitoring

Minneapolis, MN—June 5, 2012—TURCK introduces the new rotary single axis inclinometer, expanding its dual axis CANopen inclinometer offering for angular tilt detection. With a monitoring range of 360 degrees, the single axis inclinometer provides extended application flexibility, allowing operators to easily monitor mechanical arms, such as tensioners or moving components. Its CANopen communications also makes it ideally suited for mobile equipment, such as monitoring and reporting position of outriggers, booms or other vertically rotating parts.

The single axis inclinometer measures angular tilt in reference to gravity. At the heart of the TURCK inclinometer are MEMS (micro-electro-mechanical system) devices that incorporate micro-electromechanical capacitive elements into the sensor that utilize two parallel plate electrodes, one stationary and one attached to a spring-mass system. Movement causes acceleration that produces deflection in the non-stationary electrodes. This results in a measurable change in the capacitance between the two plates that is proportional to the angle of deflection. All measured values and parameters are accessible via the object directory. The micro board design in the MEMS technology allows for a compact, precise inclinometer in a very robust, industrialized package.

“Employing technology from our proven dual axis inclinometer, which monitors angles of up to 85 degrees in either the x or y axis, the single axis inclinometer extends the sensing capabilities to complete up to 360 degree rotational monitoring,” said Marty Cwach, Product Manager at TURCK. “Now, our customers can satisfy virtually any application requiring 360 monitoring.”

TURCK single axis inclinometers offer rugged, IP68-rated housing and reliable operation in temperatures ranging from -40 to +70°C.

TURCK is an industry leader providing superior quality sensing, connectivity and network products to help manufacturers improve their automated processes. For other TURCK product or technical information, contact:

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