

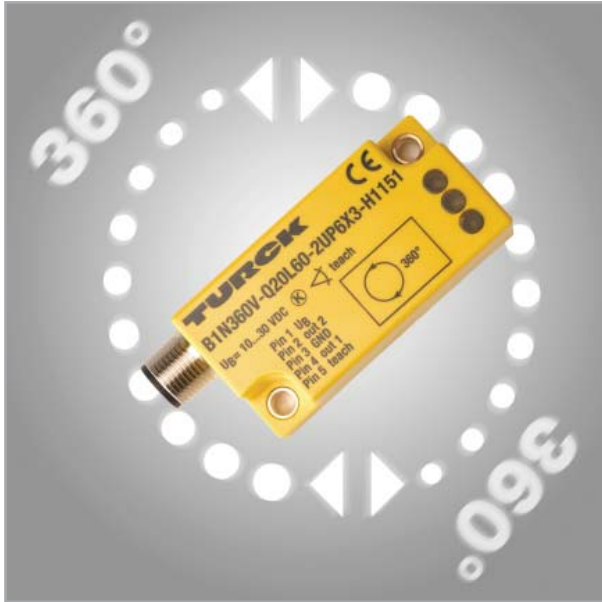
# TURCK

## PRESS RELEASE

**TURCK**  
*works*

Industrial  
Automation

## Sensor Products



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## Dual Programmable Inclinometer with Two Discrete Outputs

Minneapolis—TURCK has enhanced its line of inclinometers with the introduction of a single axis device with dual programmable set points. Like all TURCK inclinometers, this device utilizes MEMS (micro-electro-mechanical system) technology to solve unique feedback requirements. This new offering replaces the traditional analog output with two discrete outputs and is programmable for settings such as on or off points, span and hysteresis. Users can simply program the inclinometer using a teach adapter. Single axis inclinometer sensors may be used in a wide variety of industries and incorporate an adjustable measuring range of 360 degrees.

TURCK inclinometers measures angular tilt in reference to gravity. At the heart of the TURCK inclinometer is a MEMS device that incorporates a micro-electromechanical capacitive element into the sensor that utilizes two parallel plate electrodes, one stationary and one attached to a spring-mass system. Movement causes acceleration that produces deflection in the non-stationary electrode. This results in a measurable change in the capacitance between the two plates that is proportional to the angle of deflection. These signals are conditioned to provide a single analog voltage output (0.1 to 4.9 VDC) or current output (4 to 20 mA).

The micro board design in the MEMS technology allows for a compact, precise inclinometer in a very robust, industrialized package. The inclinometer is IP68 rated, with a temperature range of -30 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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