



PRESS RELEASE

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UNIVERSAL INCLINOMETER, CANopen® SERIES – from Axiomatic, P/N: AX06025X

Axiomatic's family of rugged inclinometers and tilt sensors has a series of new low cost sensors that can measure $\pm 90^\circ$ degrees or 360 degrees angular rotation. The AX06025X series features CANopen networking, a RS-232 port or 3 Voltage Outputs for communicating the angular measurement. The inclinometer series also supports the SAE J1939 CAN interface under the p/n's AX0602XX. The J1939 inclinometer is fully configurable using the Axiomatic Electronic Assistant® programming tool for PCs. All units are packaged for an IP67 rating with M12x2 5-pin connectors or M12 x1 5-pin. A mating plug with CAN termination resistor is available.



The inclinometer is designed to measure inclination angle in two orthogonal sensing directions X and Y in the range of up to $\pm 90^\circ$. If vertically installed, it can measure an inclination angle in one sensing direction in the $\pm 180^\circ$ (0-360°) range.

The angles are measured by a two-axis MEMS sensor, which senses acceleration caused by the gravity force. The output signals from the MEMS sensor are normalized and processed by a microcontroller to receive inclination angles. The resolved angles can be then sent to the CAN bus, RS232 port or output as 3 0-5V signals.

Due to a powerful microcontroller, the inclinometer can perform pre-processing of the angular information according to the users' needs. Its internal architecture is user-programmable and allows users to define their own custom functionality using a set of predefined internal functional blocks. For J1939 models, application programming is performed through the CAN interface by the PC-based Axiomatic Electronic Assistant® software. For CANopen® models, application programming is achieved via standard and commercially-available tools for CANopen®.

In a tilt sensor application, an out-of-range state can be transmitted as one of its outputs.

Applications:

Inclinometer - An integral part of a position control system or subsystem for construction equipment (excavators) and after-market excavator attachments.

Tilt Sensor – Provides out of level indication for lift equipment and other machines.

Axiomatic provides electronic machine controls, components and systems to the off-highway, military, power generation, material handling, industrial and alternate energy OEM markets. We provide efficient, innovative solutions that focus on adding value for our customers. We emphasize service and partnership with our customers, suppliers, and employees to build long term relationships and mutual trust.

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Come and visit us at BAUMA in Munich, Germany on April 19-25, 2010 at Stand A3.569/666!

Note: CANopen® is a registered community trade mark of CAN in Automation e.V.
Electronic Assistant® is a registered trademark of Axiomatic Technologies Corporation.

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