

INCLINOMETER

Tolerant against vibrations

The VTS2021 tilt sensor by Curtiss-Wright is suitable for industrial vehicles. It measures also correctly when heavily dumped.



The dual-axis tilt sensor supports J1939 (Photo: Curtiss-Wright)

Each of the two measurement axis has two sensing elements, which are constantly compared to ensure correct operation. If an error is detected, the condition is communicated to the host electronics. Each output signal is calibrated to account for thermal drift, ensuring accuracy over the operating temperature range. Powered from a voltage supply range of 6 V_{DC} to 48 V_{DC}, the sensor provides output data on the CAN interface using the J1939 application layer. Bit-rate can be configured (250 kbit/s and 500 kbit/s). CANopen is not yet supported.

The sealed design offers levels of performance with respect to water, dust, shock, vibration, and temperature. This means the inclinometer is suitable for use in hostile, on- and off-highway vehicle environments. Electrical connection is via an integrated 4-pin Deutsch DT04 connector.

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