

Pressure sensors with CANopen or J1939 interface

The pressure sensors by Suco are shown at Bauma 2019 and Hannover Messe 2019. They are designed for applications in harsh environments.



The measuring ranges from 0 bar to 1 bar up to 0 bar to 600 bar (Photo: Suco)

The Type 0630 CANOpen sensor complies with CiA 301 and CiA 404-1. The Type 0631 supports the J1939-21 application layer. Both T5 products come in a stainless steel construction. They offer measuring ranges from 0 bar to 1 bar up to 0 bar to 600 bar.

The products are shown at Hannover Messe (April 1 to 5) in hall 21, stand B40 and at Bauma (April 8 to 15) in Munich at hall 5, stand 212. The CAN interface is available at the M12 connector compliant with CiA 303-3 pin-assignment recommendation. The measuring cell fitted has a membrane that is exposed to the pressure to be measured. Affixed on this membrane is a bridge circuit consisting of four resistors in the form of a Wheatstone bridge. The values of these resistors change proportionally to the pressure load present at the measuring cell or membrane. The bridge voltage of the measuring cell is amplified in the evaluation electronics and processed digitally by a micro-controller.

The ceramic thick film pressure measuring cells are made up of a sintered ceramic body. The ceramic body sleeve already has the key geometries for the subsequent pressure range. The membrane thickness required and thus, the pressure range required is established with grinding and lapping. The resistors are imprinted with thick film technology and interconnect to form a measuring bridge.

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