MicroControl
Systemhaus für Automatisierung

1-channel DMS measurement

µCAN.1.sg-TRS

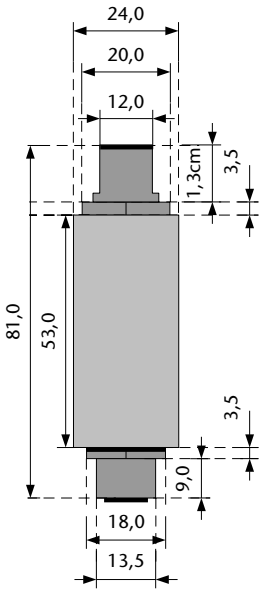
1-channel analogue acquisition module for temperature signals with CAN interface

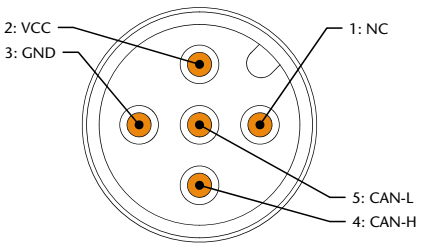
The µCAN.1.sg-TRS cable transmitter is the universal data acquisition module for analogue strain gauge signals. The module is designed for strain gauge full bridge signals. The bridge is powered via the transmitter which can be incorporated into your measuring lines

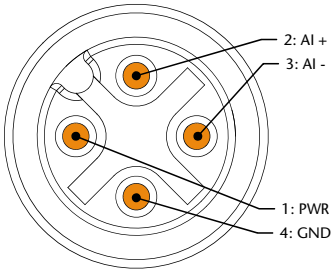
The analogue signal is sent via short connection lines to the µCAN.1.sg-TRS where the data is digitalized and sent on via CAN bus interface to a distributed logging station.

- High-speed interface with CAN, CAN FD
- Sample rate up to1 kHz
- Innovative measurement technology

Features







Order ID	Description
16.30.050	µCAN.1.sg-TRS 1-channel strain gauge acquisition module with. 4-wire full bridge, signal type max. ± 38 mV, 5 V bridge supply voltage, connection via M 12 circular connectors. Fieldbus: CAN / CAN FD. Protocols: CANopen / CANopen FD / J1939.

Technical data	Sensor acquisition µCAN.1.sg-TRS
Power supply	
Power supply voltage	9 V DC .. 36 V DC, reverse polarity protected
Power consumption	Max. 410 mW
Current consumption	Max. 45 mA @ 9 V DC
Operating temperature	-40 °C to +85 °C
Communication	
Interface	CAN, CAN FD
Protocols	CANopen, CANopen FD, J1939
Bit rate CANopen CC	50, 100, 125, 250, 500, 800, 1000 kBit/s
Bit rate CANopen FD	250/1000, 250/2000, 500/2000, 1000/4000 kBit/s
Bit rate J1939	250, 500 kBit/s
Construction	
Housing	Stainless steel circular casing L 53 x Ø 22 mm
Protection class	IP67
Dimension (L x Ø)	81 x 22 mm
Weight	85 g
Connection sensor	Circular connectors, 8-pole, socket, M12
Connection CAN	Circular connectors 5-pole, plug, M12
Analogue inputs	
Number of channels	1
Resolution	16 Bit
Accuracy	0.01 % v.E. @ 25 °C
Sample rate	Adjustable, to 1 kHz
Configuration DMS	± 38 mV