

CAN Bus temperature sensor (Media) TSR-CAN-03

High quality stainless steel transmitter for precise temperature measurement in all stainless steel compatible media

- ☑ Flexible adjustment of the measuring tip ensures optimal installation conditions
- ☑ Ideal for temperature measurement in pipelines
- ☑ High precision and excellent long-term stability since there are no mechanical setting elements, as well as the digital storage of calibration data
- ☑ Fast and easy modification of Node ID and baud rate using Layer Setting Service



Technical Data

Characteristics

Measuring element and parameters

Measuring range	-40...+80 °C (option + 150 °C)
Accuracy	±0,3 K (-40...+80 °C)
Measuring element	Semiconductor
Measuring resolution	10 Bit
Sample rate	From 5 ms

Electrical connection

CAN-Protocol	CANopen 2.0 A, according to CiA DS 404
Physical Layer	According to DIN 11898
Operating Voltage	12 - 27 V ±20 %
Option	EDSfile

Operating conditions

Operating temperature	-40...+80 °C
Storage temperature	-40°C...+120°C
Shock resistance	30 g, Duration: 14 ms at 25 °C
Vibration resistance	10 g at 20 to 1000 Hz

CANopen

- ☑ minimal wiring effort
- ☑ Standardized by CAN in Automation (CiA)
- ☑ Interoperability and Interchangeability
- ☑ Detection of error conditions (Node guarding, Emergency Message, Heart Beat)
- ☑ Baud rates from 10 kbit/s to 500 kbit/s
- ☑ EDS files

Applications

- ☑ Air conditioning
- ☑ Process control
- ☑ Automation
- ☑ (mobile) Hydraulic and many more

Certifications

The device complies with the following standards:

- ☑ EN 50082-1
- ☑ EN 50082-2

Technical modifications reserved

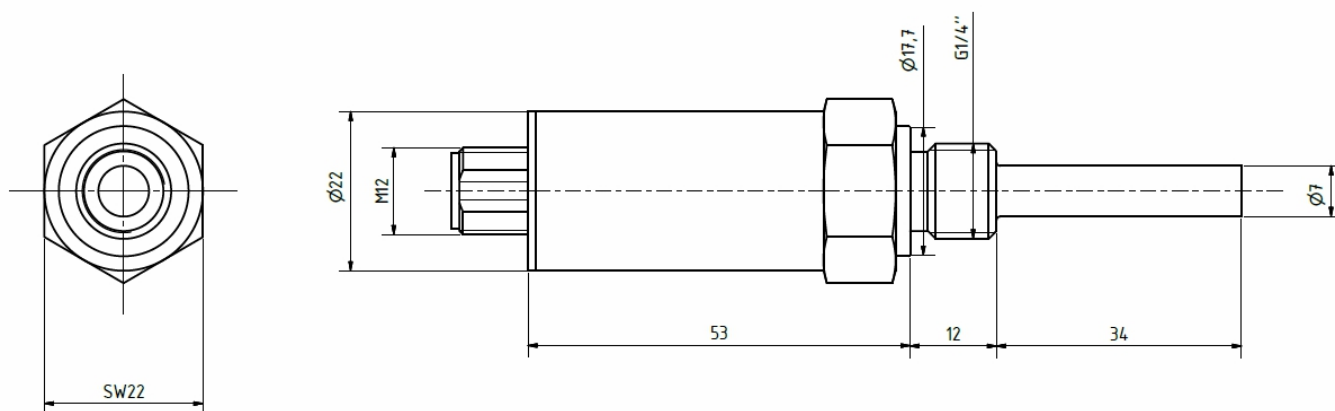
Sales and consulting:: Tel.: +49 (0)3681-8673020
ZILA GmbH Neuer Friedberg 5

E-Mail: info@zila.de
98527 Suhl

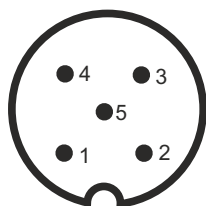

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Design and dimensions



Pin assignment



- 1 Please **don't** occupy the programming pin!
- 2 Operating voltage 12 V \pm 20 %
- 3 GND/CAN_GND
- 4 CAN_H
- 5 CAN_L

Looking at the pins

Instruction for use

The pneumatic or hydraulic sealing takes place by means of standard flat gaskets or O-rings. (See also DIN)

The permitted torque when tightening is 25 Nm

Order

Scope of delivery

CAN Bus-temperature sensor TSR-CAN-03

Options for your order

Extended temperature range up to +150 °C
Adjustment of the measuring tip (Length)
Other electrical connections up on request

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