

CAN-Bus-Temperature-Sensor TSR-CAN-01 (Tube type)

Criteria**TSR-CAN-01****Parameter**

- temperature range: -40...+80 °C
- accuracy: $\pm 1,5$ K (-40...+80 °C)
- technology: semiconductor
- Resolution: 10 Bit
- Scanning density: ≥ 5 ms

Protocol

- CAN-Protocol: CANopen 2.0 A
by CiA DS 404
- Physical Layer: by ISO 11898
- Supply Voltage: 12 V ± 20 %
- Option: EDS file available

Operating Conditions

- ambient temperature: -40 °C bis +80 °C
- storage temperature: -40 °C bis +120 °C
- Shock strenght: 30 g
in 14 ms at RT
- Vibration stability: 10 g bei 20-1000 Hz
- EMV and ESD checked: EN 50082-1 und
EN 50082-2

**Applications**

This temperature sensor enable the mearuring of temperature in water-hydraulic and other tubes under defined operation conditions

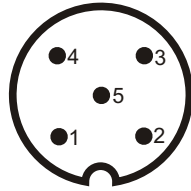
- water control
- hydraulik tubes
- brake fluid tubes
- etc.

Electrical connection:

5-poliger Binder-connector M12x1 (male)
by CiA DR-303-1

Technical data

Terminal Occupation



Look at the pins

- 1 Programming-PIN ***please not use!***
- 2 Operating Voltage 12 V $\pm 20\%$
- 3 GND/CAN_GND
- 4 CAN_H
- 5 CAN_L

Description

The CAN temperature sensor TSR-CAN 01 is delivered in a stainless steel case treated. Feeler can be used in different tubes for water, hydraulic and other applications. It allows measuring temperature in the range of $-20\dots+80^{\circ}\text{C}$ temperature.

The use of a digital temperature damp sensor guarantees the high measuring precision and an excellent long time stability because no mechanical operating devices are available.

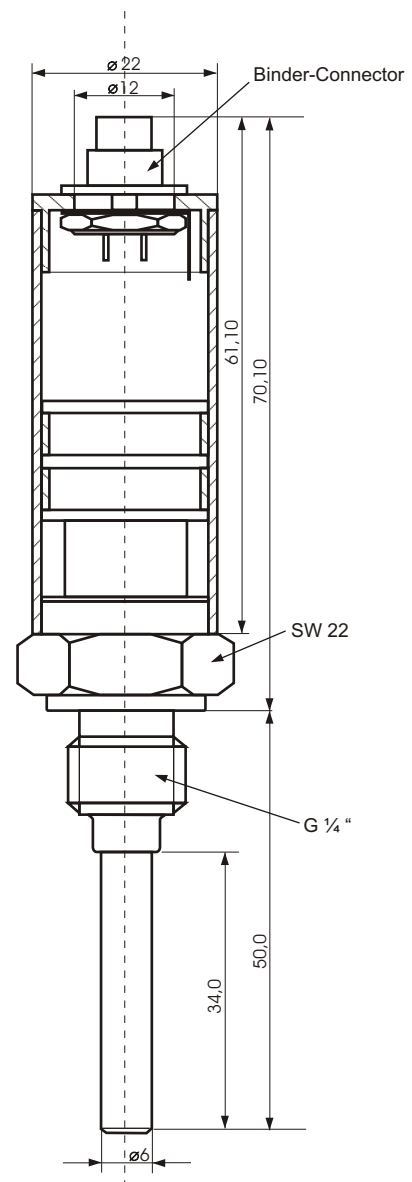
The sensor is concurring to the CANopen protocol to CiA DS 404. Baud rate (10 kBaud to 500 kBaud) and Node ID can be modified by means of Layer Setting Service.

Mode of application

The pneumatic or hydraulic insulation carried out with O-rings. The permitted torque when tightening is 25 Nm.

Order information: TSR-CAN-01

Dimension



We reserve the right to make technical modifications