

CAN-Bus Temperature-Sensor TSL-CAN-03 (Air type)

Criteria

TSL-CAN-03 (Air)

Parameter

- temperature range: -40...+80 °C
- accuracy: ±0,3 K (10...80 °C)
- technology: semiconductor
- Resolution: 0,1 K
- Scanning density: >= 5 ms

Protocol

- CAN-Protocol: CANopen 2.0 A
by CiA DS 404
- Physical Layer: by ISO 11898
- Supply Voltage: 10...48 V DC
- 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
- For the measuring least air speed needed cross-
ways to the Sensor 1,5 m/s



Applications

This temperature sensor enable the mearuring of temperature in indoor - and outdoor area under defi-
ned operation conditions

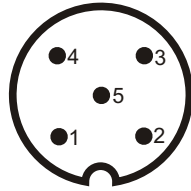
- archive monitoring
- room air conditioning
- weather stations
- etc.

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 10...48 V DC
- 3 GND/CAN_GND
- 4 CAN_H
- 5 CAN_L

Description

The CAN temperature sensor TSL-CAN 03 is delivered in an aluminum case treated with anodic oxidation. Feeler can be used as inside and the outside. It allows measuring temperature in the range of -20...+80°C and 0...100 % rel. humidity

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

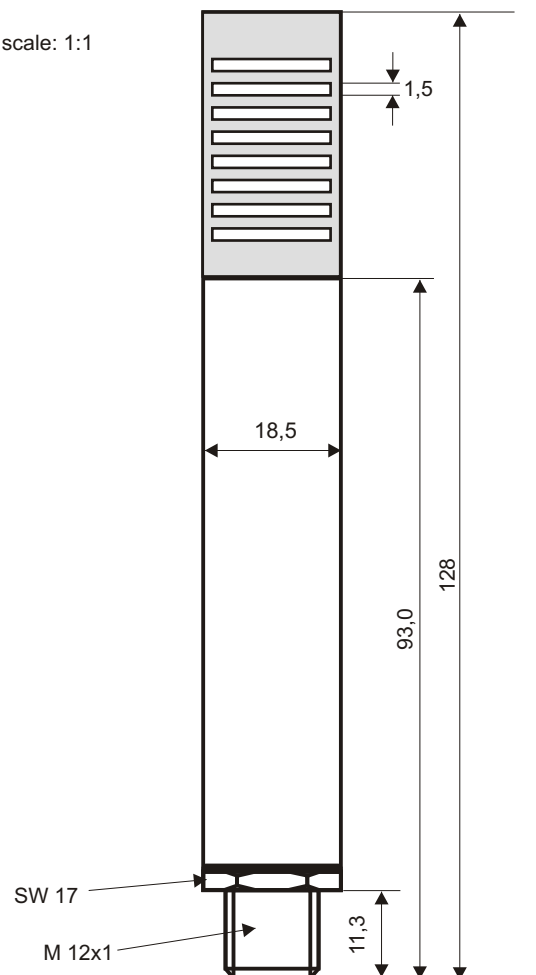
Recommended installation situation:

Vertical, up outgoing cable

Order information: TSL-CAN-03

Dimension

scale: 1:1



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

We reserve the right to make technical modifications