

CAN Bus temperature sensor (air) TSL-CAN-03

Very flexible in usage - digital air temperature sensor for indoor and outdoor applications

- ☑ Rod design provides optimal condition for installation in hard to reach areas
- ☑ 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
- ☑ Equipped with plastic cap



Technical Data

Characteristics

Measuring element and parameters

Measuring range	-40...+80°C
Accuracy	± 0,3 K (10...80 °C)
Measuring element	Semiconductor
Measuring resolution	0,1 K
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	10...48V

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
Minimum air velocity for measuring across the sensor	1,5 m/s

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
- ☑ Weather stations
- ☑ Automation technology and many more

Certifications

The device complies with the following standards:

- ☑ EN 50082-1
- ☑ EN 50082-2

Technical modifications reserved

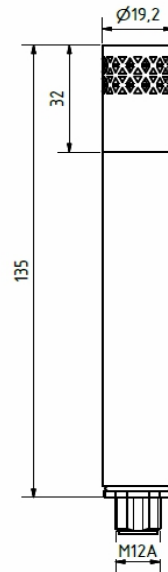
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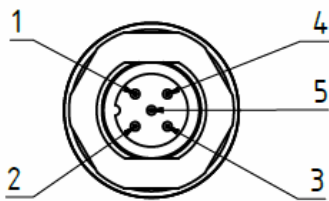

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Design and dimensions



Pin assignment



- 1 Please **don't** occupy the programming pin!
- 2 Operating voltage 10...48V DC
- 3 GND/CAN_GND
- 4 CAN_H
- 5 CAN_L

Looking at the pins

Instruction for use

Recommended fitting position:

Vertically with an outgoing cable on the upside

Order

Scope of delivery

CAN Bus temperature sensor TSL-CAN-03

Options for your order

Other electrical connections upon request

PTFE protective cap, aluminum cap, standard cap

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