

Temperature sensor TSL-CAN-03 (CANopen, Air)

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 protective cap



Technical Data

Features

Supply Voltage	10...48V DC
Housing Material	Aluminum, anodized
Weight	~ 55g (depending on cap)

Measurement element

Temperature	Semiconductor diode sensor
Resolution	0,1 K
Measuring grid	ab 5 ms

Measuring range

Temperature	-40...+80 °C
Deviation	± 0,3 K (10...80 °C)

CAN specifications

CAN-Protocol	CANopen 2.0 A, ciA DS 404
Physical Layer	DIN 11898
optional	provision of EDS-Files

Operating conditions

Operating temperature	-40...+80 °C
Storage temperature	-40°C...+120°C
Shock resistance	30 g, Duration: 14 ms (room temp.)

Vibration resistance	10 g @ 20 ... 1000 Hz
Air velocity	min. 1,5 m/s
Air flow	across the sensor
Installation position	vertical, cable upwards

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

Approvals

- ✓ EN 50082-1
- ✓ EN 50082-2

Sales and Consulting

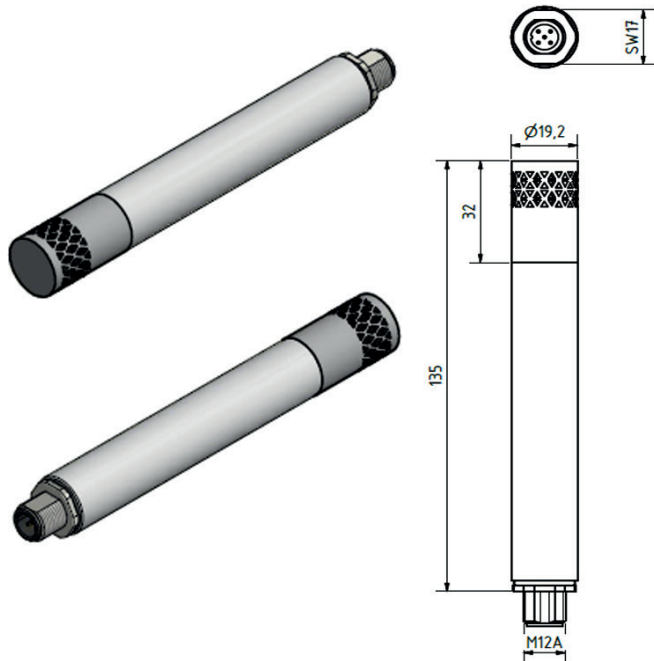
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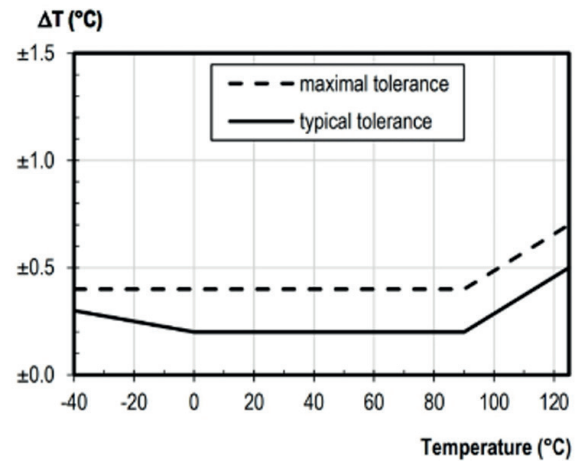
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Drawings

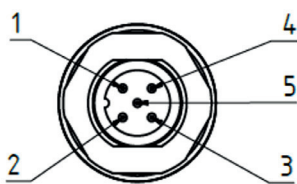


Dimensions in mm

Measuring accuracy



Pin assignment



View of the screw terminal

PIN	Notes
1	Do not assign the programming PIN!
2	Supply Voltage 10...48V DC
3	GND/CAN_GND
4	CAN_H
5	CAN_L

Order information

Scope of delivery

CAN-Bus temperature sensor TSL-CAN-03

Manual / EDS or DBC File

OPTIONAL protection cap: PTFE, aluminum or Standard

OPTIONAL: Other electrical connection variants on request

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