# CAN bus climate sensor KS-CAN-03

**Flexible, digital temperature-humidity sensor for indoor and outdoor applications**

- ☑ Compact and robust construction for industrial use
- ☑ High measuring accuracy and excellent long-term stability due to the absence of any mechanical adjustment elements
- ☑ Fast and easy modification of baud rate (10 kBaud to 500kBaud) and Node-ID via Layer Setting Service

## Technical data

| | |
|---|---|
| **Attributes** | |
| Housing | Aluminium, anodized |
| **Measuring element and parameters** | |
| Humidity | capacitive, dew resistant |
| Temperature | Semiconductor |
| Measurement resolution | 12 Bit |
| Measuring grid | from 5 ms |
| **Electrical connection** | |
| CAN protocol | CANopen 2.0 A, according to ciA DS |
| Physical Layer | according to DIN 11898 |
| Option | Provision of the EDS file |
| **Conditions of use** | |
| Operating temperature | -40...+80 °C |
| Storage temperature | -40°C...+120°C |
| Minimum air velocity required for measurement across the sensor | 1,5 m/s |

## Measuring ranges

| | |
|---|---|
| **Humidity** | 0...100% relative humidity |
| Deviation | ±2 % |
| Settling time | 4 s |
| **Temperature** | -40...+80 °C |
| Abweichung | ±0,2°C (5...40 °C) |
| Einschwingzeit | 20 s |

## Possible applications

- ☑ Archive monitoring
- ☑ Room air conditioning, also in mobile areas
- ☑ Use in weather stations

and many other applications

## Approvals

The device complies with the following standards

- ☑ EN 50082-1
- ☑ EN 50082-2

Can Bus



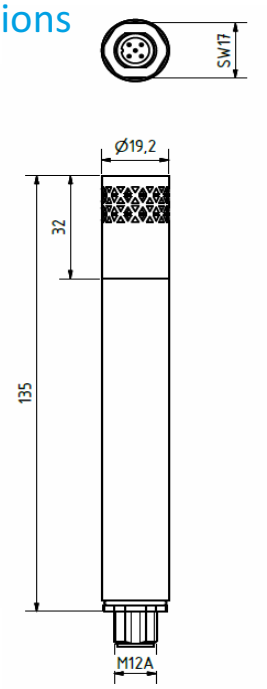


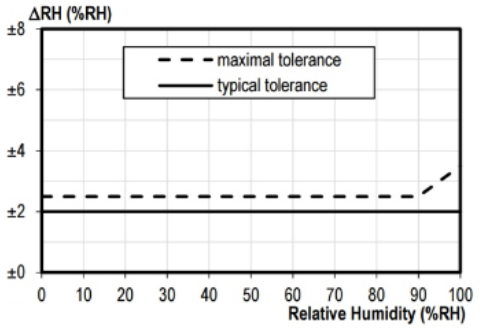
**Sales and consulting:** Tel.: +49 (0)3681-8673020 E-Mail: info@zila.de
**ZILA GmbH** Neuer Friedberg 5 98527 Suhl

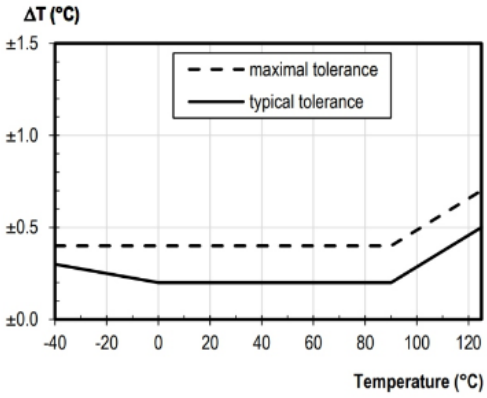
ZILA
www.zila.de

# CAN bus climate sensor KS-CAN-03

## Device design and dimensions




## Protective Cap


**Aluminum**


**Standard**

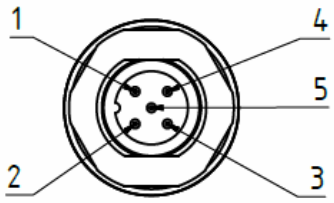

**PTFE**

## Instructions for use

***Recommended mounting position***

Vertical, with cable extending upwards

## Pin assignment




. Do not assign the programming PIN!
! Operating voltage 10...48V DC
3 GND/CAN_GND
4 CAN_H
5 CAN_L

Auf die Schraubklemme gesehen

## Order

### Scope of delivery

| |
|---|
| CAN bus climate sensor KS-CAN-03 |

### Order options

| |
|---|
| Desired measuring ranges as indicated |
| Other electrical connection variants on request |
| PTFE protective cap, aluminum cap, standard cap |

Data sheet version:KS-CAN-03-ENG-25022020.ANHU





**Sales and consulting:** Tel.: +49 (0)3681-8673020 E-Mail: info@zila.de
**ZILA GmbH** Neuer Friedberg 5 98527 Suhl
www.zila.de