

CAN-Climatic-Sensor KS-CAN-03

Criteria

Measuring range humidity: 0...100 % rel. humidity.
 • accuracy: $\pm 2\%$ (10...90 % r.h.)
 • response time: 4 sec
 • measuring element: capacitiv
 dewing strength

Measuring range temperature: -40...+80 °C
 • accuracy: $\pm 0,5\text{ K}$ (5...40 °C)
 • response time: 20 sec
 • measuring element: semiconductor

Measuring parameter

• measuring resolution: 12 Bit
 • scanning density: min. 5 ms

Protocol- and connection data:

• CAN-Protocol: CANopen 2.0A
 CiA DS 404
 • physical Layer: ISO 11898
 • operating voltage: 10 - 48 V DC
 • Option: EDS file available

Operating condition:

• ambient operating temperat. -40 to +80 °C
 • storage temperature -40 to +120 °C
 • EMV and ESD checked: EN 50082-1
 EN 50082-2
 • for the measuring least air speed needed crossways to
 the sensor 1,5 m/s

KS-CAN-03



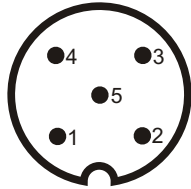
Applications

This climate sensor enable the measuring of the humidity and temperature in in-door- and out-door-area under defined operating condition

- archiv monitoring
- room air conditioning
- weather stations

Technical data

Terminal occupation



on the pins seen

- 1 Programming-PIN ***please don't using!***
- 2 Operating voltage 10-48 V DC
- 3 GND/CAN_GND
- 4 CAN_H
- 5 CAN_L

Description

The CAN climate sensor KS-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 and humidity in the range of -40...+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.

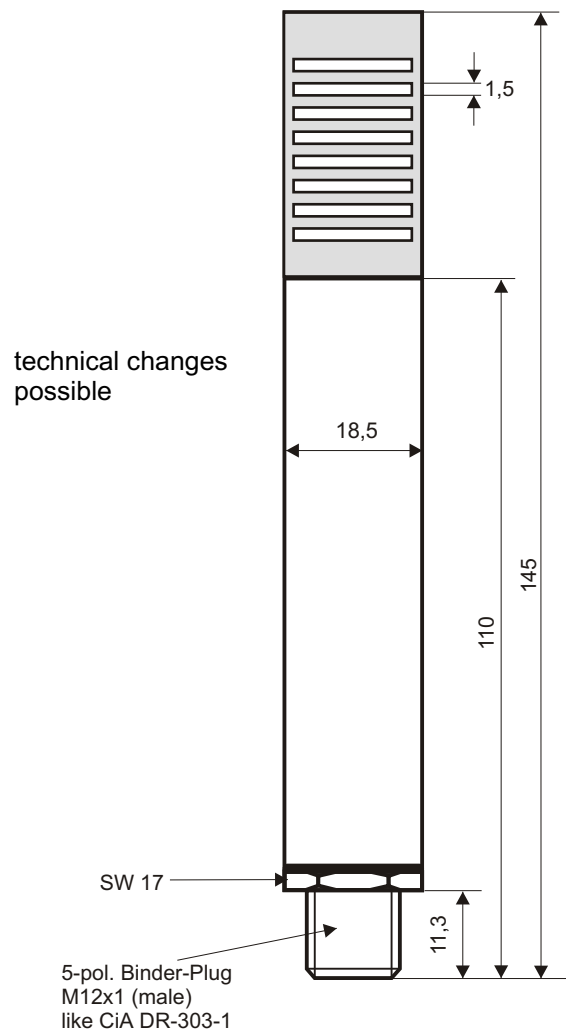
Mode of application

Recommended installation situation:

vertical, up outgoing cable

Ordering name: KS-CAN-03

Dimension



We reserve the right to make technical modifications