

Humidity Transducer GLOBAL

1. General

The humidity sensor is used in ventilation systems in which the aim is to measure and/or regulate the air humidity.

Description

The humidity sensor contains a humidity sensing element, which also measures the temperature. The sensor is mounted on a ventilation duct by means of the duct connection flange supplied.

Function

Humidity values are transmitted via 0...10V signal to the control circuit card of the air handling unit.

2. Installation

The humidity sensor should be installed in the supply air duct or extract air duct. The humidity sensor should have a straight run of ducts, corresponding to double the duct diameter (circular ducts) or double the diagonal dimension of the duct (rectangular ducts) both upstream and downstream of the sensor. The position in which the humidity sensor is mounted will not affect its performance but it is inappropriate to mount it standing with its connection pointing downwards because this may lead to moisture collecting inside the sensor. It is important that the sensor be mounted with its sensing element (in the tip of the sensor) positioned in the centre of the duct.



Fig. 1: Humidity SENSOR 0...10V CID370024

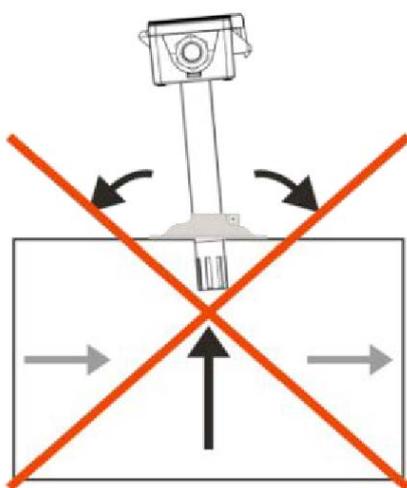
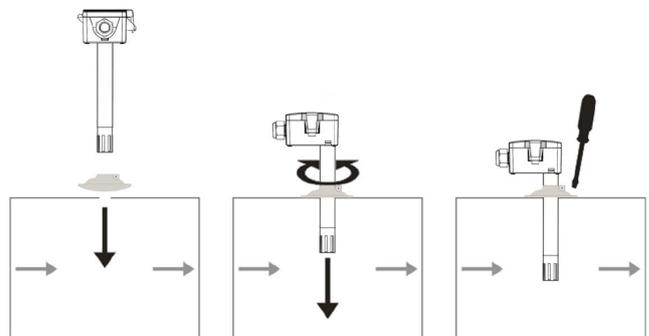


Fig.3: Sensor location



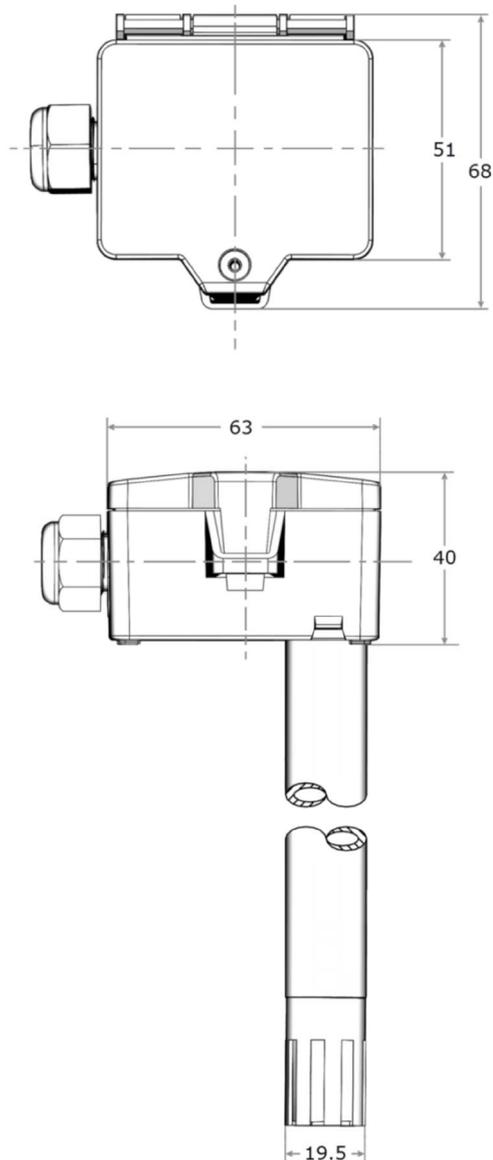
N.B! The sensor can be mounted into the ventilation duct with the mounting flange MF20 TPO. For risk of condensate permeation the pipe must be installed in a position that occurred condensate can run off.

Fig.4: Sensor location

TECHNICAL DATA

- Supply voltage:** 24VDC / VAC ±15%
- Current consumption:** 24VDC: 0,4W
24VAC: 0,8VA
- Output signal:** 0-10VDC
- measurement range:** adjustable: 0..50 | 0..80 g/m³,
default setting: 0..50 g/m³
- Air speed:** max. 12m/s
- Accuracy:** ±2% between 10..90% rH
(typ. at 21 °C)
- Protection class:** IP65 acc. EN 60529
- Ambient temperature:** -20 to +70°C
- Dimensions:** 68 x 40 x 63mm
- Pipe:** Ø=19,5 mm, length=140
- Cable entry:** M16 for cable max. Ø=8 mm

DIMENSIONS



Wiring CID370024

VV, VVS
2x 0..10 V | 0..5 V

