

Humidistat

For detection of relative humidity. For regulation or control of fans, drying units and humidifiers. Installation in an air duct or on a wall. With single-pole changeover contact and temperature compensation.
IP55 / NEMA 13 verified.



Type Overview

| Type | Output signal humidity switch | Probe length | Additional features |
|----------|-------------------------------|--------------|---------------------|
| 01DH-10N | Changeover | 156 mm | Auto reset |

Technical data

| | | |
|-------------------------------|--|---|
| Electrical data | Electrical connection | Screw terminal 1.5 mm ² |
| | Cable entry | Cable gland with strain relief ø6...8 mm |
| Functional data | Medium | Air |
| | Output signal humidity switch note | Changeover contact, potential-free Max. switching current 5 (3) A @ AC 250 V Max. switching current 300 mA @ DC 220 V Min. switching current 100 mA @ AC/DC 24 V |
| | Switching differential (humidity) | <8% RH |
| Measuring data | Measured values | Relative humidity |
| Specification Humidity | Measuring range | 15...95% RH |
| | Accuracy | Setting accuracy: ±5% RH |
| | Long term stability | -1.5% RH p.a. |
| | Time constant τ (63%) in the air duct | Typical 180 s @ 0.2 m/s |
| Safety data | Protection class IEC/EN | II, reinforced insulation |
| | Degree of protection IEC/EN | IP55 |
| | Degree of protection NEMA/UL | NEMA 13 |
| | EMC | CE according to 2014/30/EU |
| | Low voltage directive | CE according to 2014/35/EU |
| | EU Conformity | CE Marking |
| | Quality Standard | ISO 9001 |
| | Ambient humidity | Max. 90% RH, non-condensing |
| | Ambient temperature | 0...70°C [32...160°F] |
| | Operating condition airflow | max. 10 m/s |
| Materials | Housing | Cover with lens: PC Bottom: PPS, PS and steel Seal: NBR and CR |
| | Cable gland | PA6, black |

Safety notes



This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

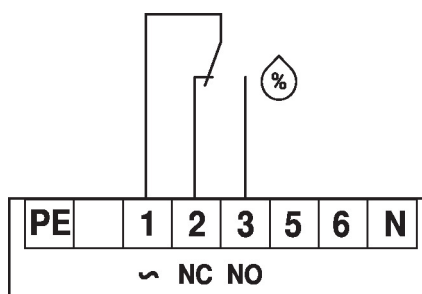
Parts included

Mounting kit
1/2" NPT conduit adapter

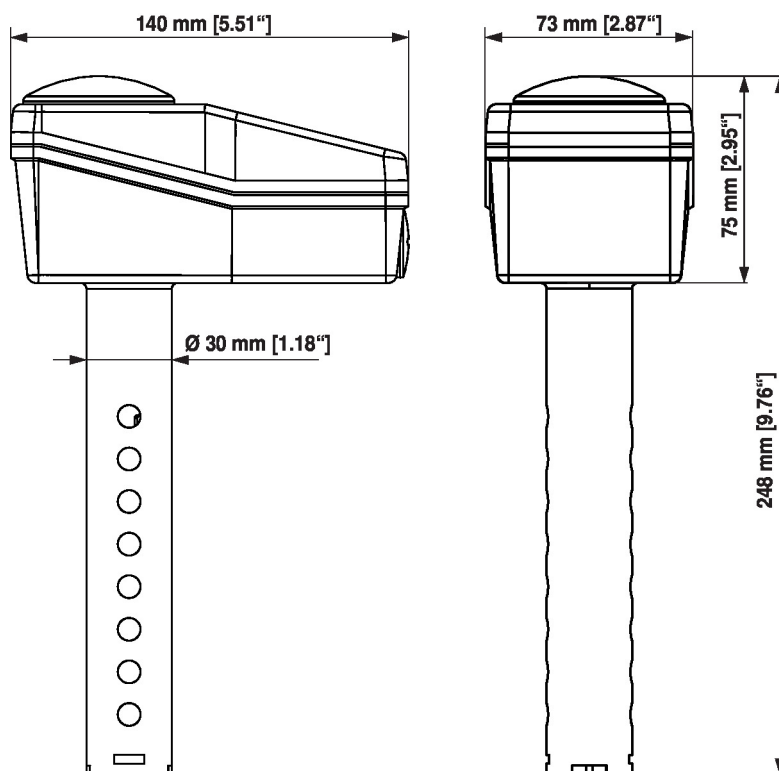
Accessories

| Optional accessories | Description | Type |
|----------------------|--|-------------|
| | Connection adapter flex conduit, M20x1.5, for cable gland 1x 6 mm, Multipack 10 pcs. | A-22G-A01.1 |

Wiring diagram



Dimensions



Type

01DH-10N

Weight

0.40 kg

Further documentation

- Installation instructions