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 mm²
	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.

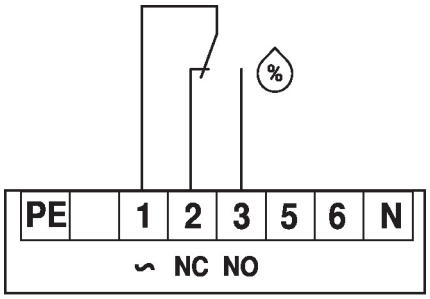
Parts included

Mounting kit
1/2" NPT conduit adapter

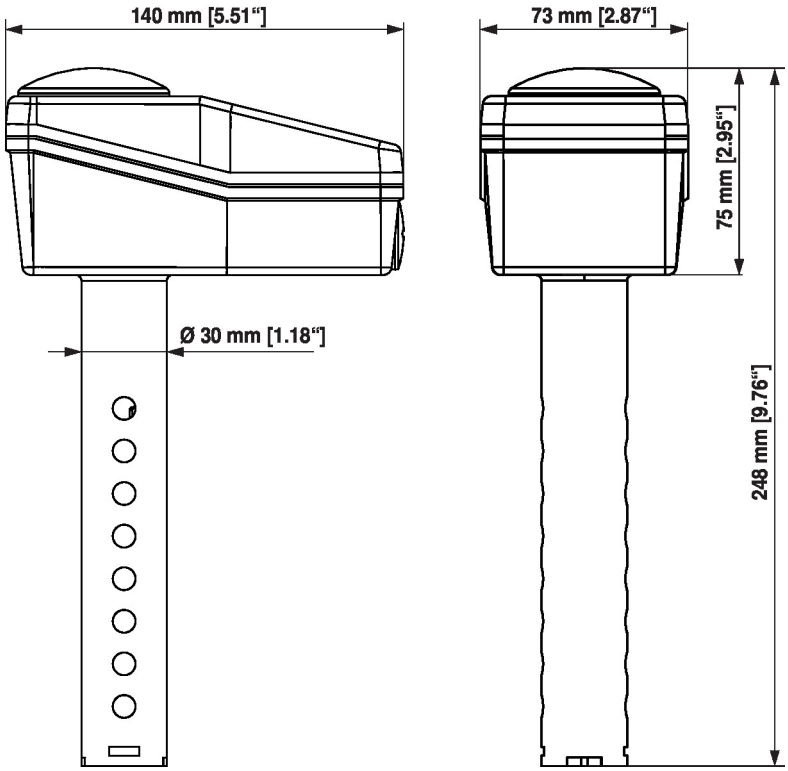
Accessories

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	Weight
01DH-10N	0.40 kg

Further documentation

- Installation instructions