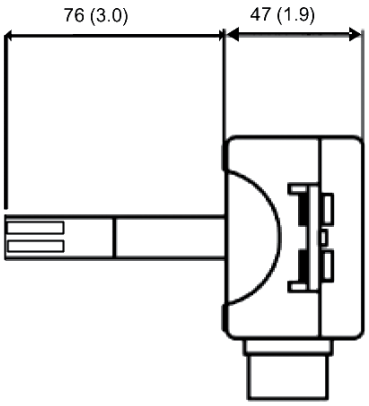
On/Off Digital Duct Humidistat
HSP-2573984

CLEAN COMFORT™
INDOOR AIR ESSENTIALS

The HSP-2573984 control is designed for mounting on the HVAC system's return ductwork to accurately control the relative humidity in a zone or space. It can be configured for either humidity control or as a high limit safety device. An optional remote sensor (part number HSP-2573987) can be used for outdoor temperature setback of the humidity control setpoint to prevent condensation in windows and building structures.

Features:

- 24 Vac On/Off control
- Single speed fan support
- Password protected programmable user and control parameters
- Accuracy of ±5 % RH
- No loss of set parameters when returning from power failure



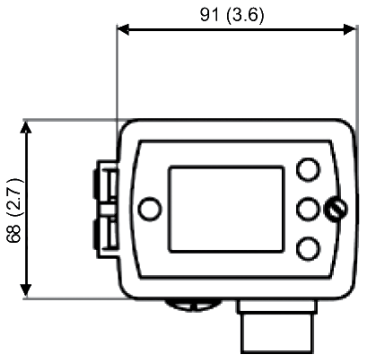


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TABLE 4: TECHNICAL SPECIFICATION

Power Supply	**Operating Voltage**	24 V AC/DC ± 10 %, 50 – 60 Hz
	Power Consumption	**Max. 1.5 VA**
	Electrical Connection	**Terminal Connectors, wire: AWG 24 – 12**
	Internal rectification: **Signal ground = power ground**	**Half wave rectified** **Isolation transformer required**
Signal Inputs	**Humidity Input:** **Range** **Accuracy** **Hysteresis**	**Element: Polymer-Based Capacity Sensor** **0 – 100% RH** **10% – 90% RH ± 5.0%** **0 – 10% and 90 – 100% ± 7.0%** **±1% RH**
	Temperature Input **Range**	**Optional Outdoor Temperature Sensor NTC** **(P/N: HSP-2573987)** **-40 –70°C (-40 – 158°F)**
	Accuracy	**-40 – 0°C (-40 – 32°F): 0.5 C** **0 – 50°C (32 – 122°F): 0.2 C** **50 – 70°C (122 – 158°F): 0.5 C**
Signal Outputs	**Digital Switching Outputs** **Switching type** **AC Switching power**	**DO1 – DO2** **Relays** **2 x 1.0 A, 24 Vac max**
Environment	**Operation** **Climatic Conditions** **Temperature** **Humidity**	**To IEC 721-3-3** **class 3 K5** **0 – 50 °C (32 – 122 °F)** **<95 % RH non-condensing**
	Transport & Storage **Climatic Conditions** **Temperature** **Humidity** **Mechanical Conditions**	**To IEC 721-3-2 and IEC 721-3-1** **class 3 K3 and class 1 K3** **-25 – 70 °C (-13 – 158 °F)** **<95 % RH non-condensing** **class 2M2**
Standards	**Product standards** **Automatic electrical controls for household and similar use**	 **EN 60 730 –1** **EN 60 730 – 2 – 9**
	Degree of Protection	**IP30 to EN 60 529**
	Safety Class	**III (IEC 60536)**
Housing	**Cover, back part** **Mounting Plate**	**Polycarbonate PC (UL94 class V-0)** **PTFE coated 1µm pores**
General	**Dimensions (H x W x D):** **Transmitter case:** **Probe length:**	 **91 x 68 x 47mm (3.7˝ x 2.7˝ x 1.9˝)** **76 mm (3.0")**
	Weight (including package)	**220g**

Power Failure

Upon power-interruption, all parameters and setpoints are memorized in non-volatile memory and therefore do not have to be re-entered again.

Our continuing commitment to quality products may mean a change in specifications without notice.
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