Electronic Hygrotherms

Applications

The electronic hygrotherms sense the ambient temperature and relative air humidity (RH). Depending on the selected contact combination, the hygrotherm will turn a connected device on or off if either the temperature is below or the humidity is above the set points. The integrated LED in each adjustment knob is lit to indicate the active function.

Features

- Efficient temperature and humidity control
- Compact design
- High switching capacity
- Optical function display
- DIN rail mounting

Electronic Hygrotherms Specifications

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6°F [2K] at 77°F [25°C] and 50% RH</td>
<td>4% RH at 77°F [25°C] and 50% RH</td>
</tr>
</tbody>
</table>

Switching Tolerance

+/- 1K

Operating Voltage

100-240 VAC, 50/60 Hz

Response Time - Humidity

Approximately 5 seconds

Contact Type

Change-over contact (relay)

Contact Resistance

<10 mΩ

Service Life

UL: 30,000 cycles
VDE: 15,000 cycles

Max. Switching Capacity

10A resistive / 1.6 A inductive @ 240VAC
0.6A @ 60VDC *

Max. Inrush Current

AC 30A for 10 sec.

Connection

5-pole terminal, 0.5 Nm max. clamping torque
14 AWG [2.5 mm²] max. solid wire
16 AWG [1.5 mm²] max. stranded wire with wire end ferrule

Housing

Plastic, UL 94V-0, light gray

Mounting

Clip for 35mm DIN rail, EN 60715

Mounting Position

Vertical

Operating / Storage Temperature

-40 to 140°F [-40 to 60°C]

Storage Humidity

max. 95% RH (non-condensing)

Weight

0.22 lb [100 g]

Protection Type

IP20

Approvals

CE, UL Recognized File No. E164102, VDE, RoHS 2 compliant

Note: *Not UL confirmed.

Dimensions

Inches [mm]

2.36 [60.0] 1.59 [40.4] 3.03 [77.0] 1.54 [39.1] 1.69 [43.0]

TORQUE 0.5Nm MAX

Electronic Hygrotherms

Din Rail Mounted

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Settings Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>012309-00</td>
<td>$84.00</td>
<td>32 to 140°F [50% to 90% RH]</td>
</tr>
<tr>
<td>012300-00</td>
<td>$84.00</td>
<td>0 to 60°C [50% to 90% RH]</td>
</tr>
</tbody>
</table>

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Wiring Diagram

Please see our website www.AutomationDirect.com for complete engineering drawings.