Electronic Hygrotherms for Enclosures, DIN Rail Mounted

012309-00

Applications

The electronic hygrotherms sense the ambient temperature and relative air humidity. 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
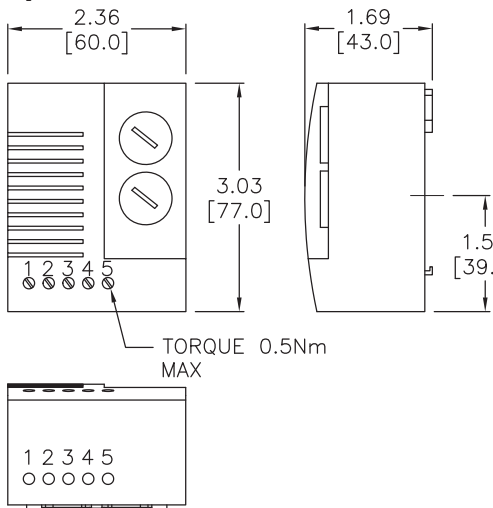- Optical function display
- DIN rail mounting

Part Number	Price	Settings Ranges	
		Temp	**Humidity**
012309-00	<--->	32° to 140°F	50% to 90% RH

Electronic Hygrotherms (DIN Rail Mounted) Specifications	
Switching Difference - Temperature	3.6°F (2K) 1K tolerance - at 77°F (25°C) and 50% RH
Switching Diference - Humidity	4% RH ±1% tolerance - at 77°F (25°C) and 50% RH
Operating Voltage	120 VAC, 50/60 Hz
Response Time - Humidity	Approximately 5 seconds
Contact Type	SPDT / change-over contact (relay)
Contact Resistance	<10 mΩ
Service Life	NC: >50,000 cycles; NO: >100,000 cycles
Max. Switching Capacity	NC: 6A resistive / 1A inductive @ 120 VAC; NO: 8A resistive / 1.6A inductive @ 120 VAC; 4A @ 24 VDC
Max. Inrush Current	AC 16 A for 10 sec.
Connection	5-pole terminal, clamping torque 0.5 Nm max.; solid wire – 14 AWG max. (2.5 mm^2); stranded wire (with wire end ferrule) – 16 AWG (1.5 mm^2)
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35 mm DIN rail, EN 60715
Mounting Position	Vertical
Operating Temperature	32° to 140°F (0° to 60°C)
Storage Temperature	-4° to 176°F (-20° to 80°C)
Weight	0.44 lb (200 g)
Protection Type	IP20
Approvals	CE, UL Recognized File No. E164102, RoHS compliant

Dimensions:

Inches [mm]

Wiring Diagram