Electronic Hygrotherms

012309-00

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
- Current draw of fewer than 10 mA

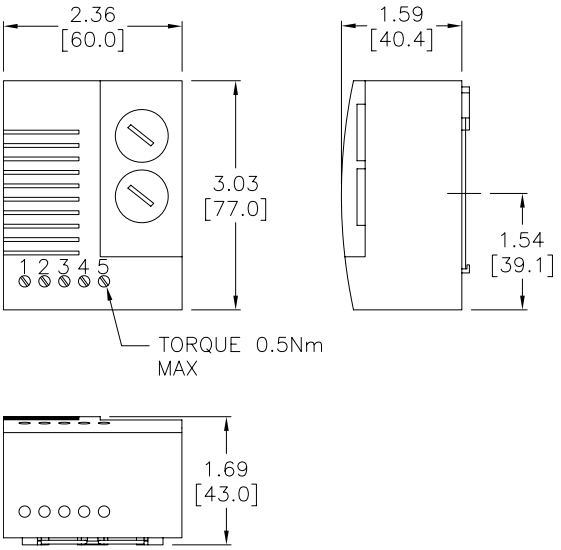
Electronic Hygrotherms DIN Rail Mounted

PartNumber	Price	Settings Ranges	
		Temp	Humidity
012309-00	$131.00	32 to 140°F	50% to 90% RH
012300-00	$131.00	0 to 60°C	50% to 90% RH

Electronic Hygrotherms Specifications

	Temperature	Humidity
Switching Difference	3.6°F [2K] at 77°F [25°C] and 50% RH	4% RH at 77°F [25°C] and 50% RH
Switching Tolerance	+/- 1K	+/- 1% RH
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 [2.5mm] 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



Wiring Diagram