



Efficient condensation control

Adjustable relative humidity range

High switching capacity

DIN rail mountable

The MFR 012 electromechanical thermostat is designed to control the relative humidity inside enclosures. When connected to an enclosure heater (dehumidifier), it will energize the heater at the humidity set point in order to raise the dew point. This helps prevent damage and malfunction of electronic components caused by condensation and corrosion.¹⁾

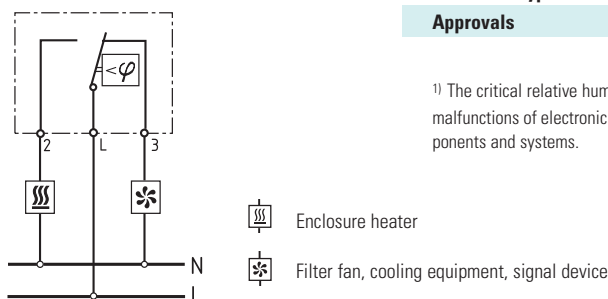
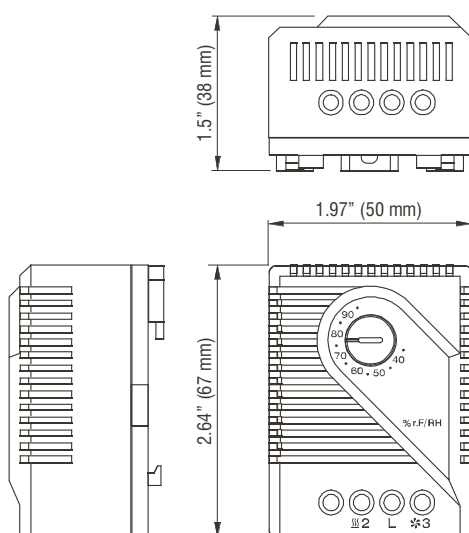
The MFR 012 can also be used to control cooling fans, warning lights or other devices.



Technical Data

Switching difference	4% RH ($\pm 3\%$ tolerance) - at 50% RH
Permissible air velocity	50 ft/sec (15m/s)
Contact type	SPDT / change-over contact
Contact resistance	< 10m Ω
Service life	> 100,000 cycles
Min. Switching capacity	100mA @ AC/DC 20V
Max. Switching capacity	5A resistive / 1A inductive @ 250VAC
	DC 20W
EMC	acc. to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3
Connection	3-pole terminal, clamping torque 0.5Nm max.: solid wire - AWG 14 max. (2.5mm ²) stranded wire (with wire end ferrule) - AWG 16 max. (1.5mm ²)
Housing	plastic, UL 94V-0, light grey
Mounting	clip for 35mm DIN rail, EN 60 715
Mounting position	vertical
Operating temperature	+32 to +140°F (0 to +60°C)
Storage temperature	-4 to +176°F (-20 to +80°C)
Dimensions	2.64 x 1.97 x 1.5" (67 x 50 x 38mm)
Weight	approx. 2 oz. (60g)
Protection type	IP20
Approvals	UL File No. 164102

¹⁾ The critical relative humidity level for most components is 65%. Above 65% RH, condensation can form and cause malfunctions of electronic equipment. Long term, this can lead to corrosion and permanent damage of electronic components and systems.



Part No.	Setting range
01220.0-00	35 to 95% RH

Specifications are subject to change without notice. Suitability of this product for its intended use and any associated risks must be determined by the end customer/ buyer in its final application.