



- 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.<sup>1)</sup>

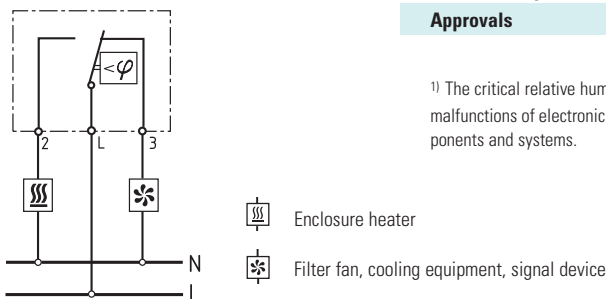
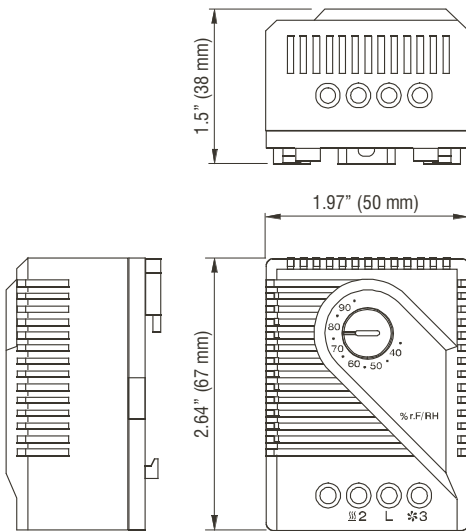
The MFR 012 can also be used to control cooling fans, warning lights or other devices.



### Technical Data

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

<sup>1)</sup> 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