



ACTUAL SIZE

Mechanical Hygrostat MFR 012

- Adjustable relative humidity range
- High switching capacity
- DIN rail mountable

The MFR 012 is designed to control the relative air humidity inside of enclosures. When connected to an enclosure heater, (de-humidifier), it will turn the heater on at the set humidity level 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 MFR 012

Part No.: 01220.0-00

Adjustment range: 35 - 95% ($\pm 3.0\%$) relative humidity

Switching difference (hysteresis): Approx. 4% RH @ 50% relative humidity

Permissible air velocity: 50 ft/sec (15 m/s)

Maximum switching voltage: 250 VAC

Attention: 250 V should only be switched in a non-condensing environment!

Contact type: Change-over contact

Contact resistance: $< 10\text{m}\Omega$

Service life: 50,000 cycles

Minimum switching capacity: 100mA @ AC/DC 20 V

Maximum switching capacity: 5A @ AC 230 V (resistive load)

0.2A @ AC 230 V

(inductive load at $\cos \phi = 0.8$)

DC 20W

EMI/EMC compliance: EN 55014-1-2, EN 61000-3-2, EN 61000-3-3

Connection: 3-pole terminal, 3 x AWG 14 max. (2.5 mm²)

Mounting: Clip for 35 mm DIN rail (EN 50022)

Dimensions (H x W x D): 2.64 x 1.97 x 1.5" (67 x 50 x 38 mm)

Housing: Plastic, UL94V-0

Weight: 2 oz. (60 g)

Operating temperature: 32 to 140°F (0 to 60°C)

Storage temperature: -4 °F to 176 °F (-20 to 80 °C)

Protection type: IP 20

Application examples: Electrical & Electronic enclosures

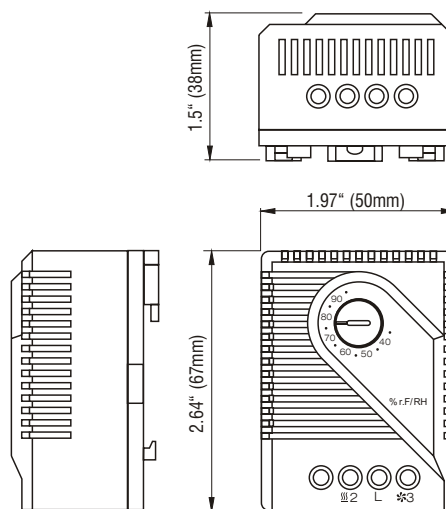
Telecommunication systems

Display panels

Ticket dispensers

Automatic teller machines (ATM's)

Access & Parking control systems



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

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.

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