



ACTUAL SIZE

## Mechanical Hygrostat MFR 012

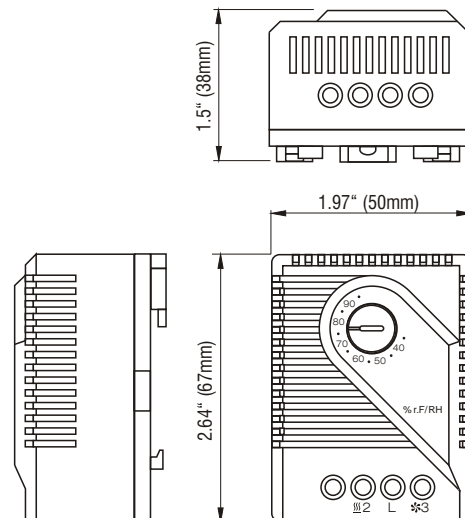
- Adjustable relative humidity range
- High switching capacity
- DIN rail mountable

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.<sup>1)</sup> The MFR 012 can also be used to control cooling fans, warning lights or other devices.



### Technical Data MFR 012

<b>Part No.:</b>	<b>01220.0-00</b>
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
<i>Attention: 250 V should only be switched in a non-condensing environment!</i>	
<b>Contact type:</b>	Change-over contact
<b>Contact resistance:</b>	<10m
<b>Service life:</b>	100,000 cycles
<b>Minimum switching capacity:</b>	100mA @ AC/DC 20 V
<b>Maximum switching capacity:</b>	5A @ AC 230 V (resistive load) 1.0A @ AC 230 V (inductive load at $\cos \phi = 0.8$ ) DC 20W
<b>EMI/EMC compliance:</b>	EN 55014-1-2, EN 61000-3-2, EN 61000-3-3
<b>Connection:</b>	3-pole terminal, 3 x AWG 14 max. (2.5 mm <sup>2</sup> )
<b>Mounting:</b>	Clip for 35 mm DIN rail (EN 50022)
<b>Dimensions (H x W x D):</b>	2.64 x 1.97 x 1.5" (67 x 50 x 38 mm)
<b>Housing:</b>	Plastic, UL94V-0
<b>Weight:</b>	2 oz. (60 g)
<b>Operating temperature:</b>	32 to 140°F (0 to 60°C)
<b>Storage temperature:</b>	-4 °F to 176 °F (-20 to 80 °C)
<b>Protection type:</b>	IP 20
<b>Application examples:</b>	Electrical & Electronic enclosures Telecommunication systems Display panels Ticket dispensers Automatic teller machines (ATM's) Access & Parking control systems



<sup>1)</sup> 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.