

# DATA SHEET



## Mechanical Hygrostat MFR 012

The electromechanical hygrostat is designed to control enclosure heaters so that the dew point is raised when a critical relative humidity of 65 % is exceeded. In this way condensation and corrosion in enclosures with electric/electronic components is effectively prevented.



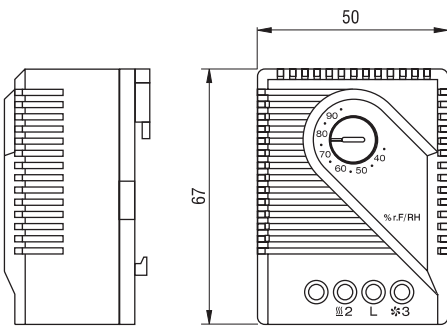
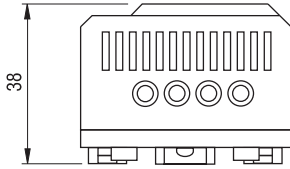
### FEATURES

- Adjustable relative humidity
- Change-over contact
- High switching capacity
- Easily accessible terminals
- Clip fixing

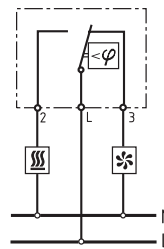
### TECHNICAL DATA

Switch temperature difference	4% RH ( $\pm 3\%$ tolerance)
Permissible air velocity	1.5 m/sec.
Contact type	change-over contact
Contact resistance	$< 10\text{m}\Omega$
Service life	$> 50,000$ cycles
Min. switching capacity	AC 20 V / DC 100 mA
Max. switching capacity	AC 250 V, 5 A DC 20 W
Connection	3-pole terminal for 2.5 mm <sup>2</sup> , clamping torque 0.5 Nm max.: Rigid wire 2.5 mm <sup>2</sup> (AWG 14) stranded wire <sup>2</sup> 1.5 mm <sup>2</sup> (AWG 16)
Mounting	clip for 35 mm DIN rail, EN 60715
Casing	Plastic according to UL94 V-0, light grey
Dimensions	67 x 50 x 37 mm
Weight	Approx. 60 g
Fitting position	Variable
Operating/Storage temperature	0 to +60 °C (+32 to +140 °F) / -40 to +60 °C (-40 to +140 °F)
Protection type	IP20

- \* When connecting with stranded wires, wire end ferrules must be used.
- \* at 50 % RH



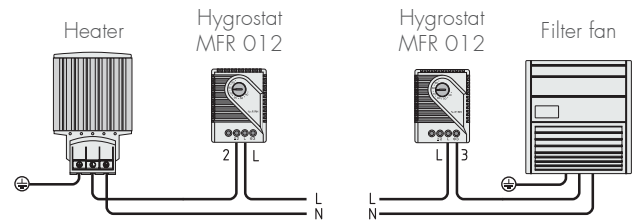
Connection diagram



Enclosure heater

Filter fan, Cooling equipment,  
Signal device

Examples of connection



For this product, please contact:

ERANOVA ENDÜSTRİ  
ve ELEKTRİK MALZEMELERİ LTD. ŞTİ.

Perpa Trade Center, Block 11th Floor,  
No: 1828, Okmeydanı, Şişli / İstanbul - Turkey  
Tel. +90 (212) 265 02 93 - Fax +90 (212) 381 79 69  
satis@eranova.com.tr

**ERANOVA**  
Endüstri ve Elektrik Malzemeleri Ltd. Şti.  
Dynamic Solutions Worldwide

[www.eranova.com.tr](http://www.eranova.com.tr)

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