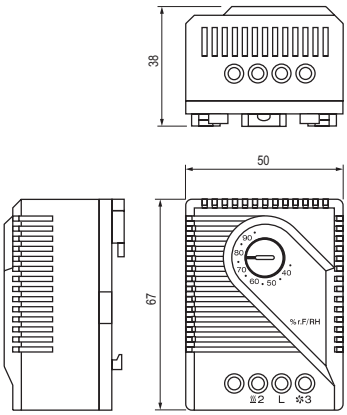
Mechanical Hygrostat

MFR 012



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

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.

Technical Data

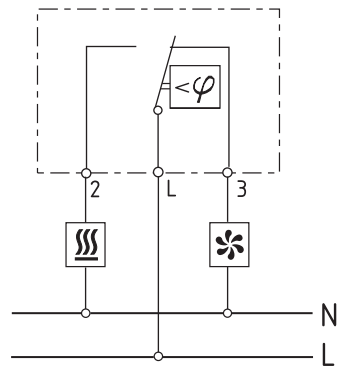
CE RoHS ISO9001 Patent

MFR 012	
Switch difference[1]	+/-5% RH
Permissible air velocity	15m/sec.
Contact type	change-over contact
Service life	> 50,000 cycles
Min. switching capacity	20VAC / DC 100mA
Max. switching capacity	250VAC, 5A / DC 20W
Connection	3-pole terminal for 2.5mm², clamping torque 0.5Nm max.: rigid wire 2.5mm² (AWG 14); stranded wire[2] 1.5mm² (AWG 16)
Mounting	clip for 35mm DIN rail, EN 60715
Casing	plastic according to UL94 V-0, light grey
Dimensions	67 x 50 x 38mm
Weight	approx. 60g
Fitting position	variable
Operating/Storage temperature	0 to +60°C (+32 to +140°F) / -40 to +60°C (-40 to +140°F)
Operating/Storage humidity	max. 95% RH (non-condensing)
Protection type	IP20

[1] at 50% RH

[2] When connecting with stranded wires, wire end ferrules must be used.

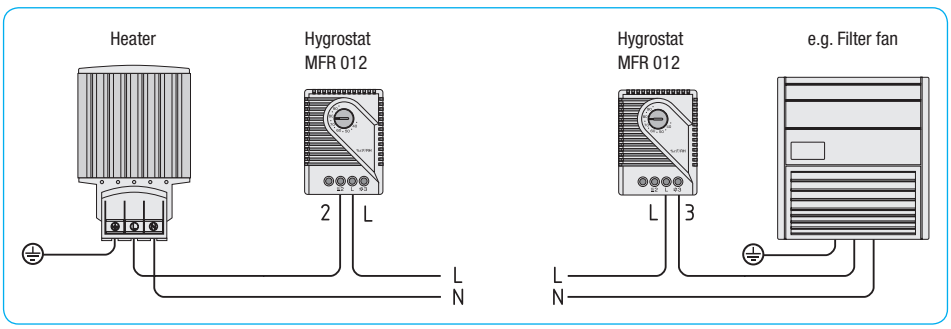
Connection diagrams



Heater

Filter fan, Cooling equipment, Signal device

Examples of connection



Art. No.	Setting Range	Operating Voltage
01220.0-00	35 to 95% RH	20VAC/DC, 250VAC