



HS01

MECHANICAL HYGROSTAT



The HS01 is a device specifically designed to regulate the relative air humidity within enclosures. Its main purpose is to prevent condensation and corrosion, which can lead to damage and malfunction of electronic components. By connecting the HS01 to an enclosure heater, also known as a dehumidifier, it can effectively raise the dew point within the enclosure.

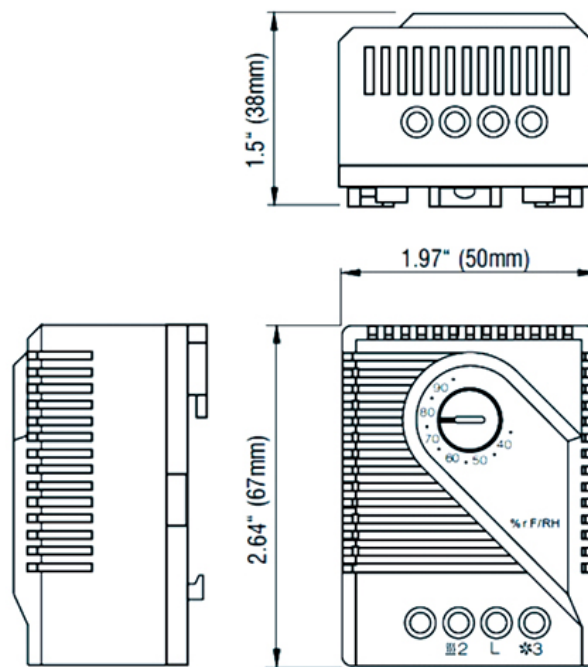
When the humidity level inside the enclosure reaches the set threshold, the HS01 triggers the heater to turn on. This action raises the temperature inside the enclosure, which in turn raises the dew point. By doing so, the HS01 helps to prevent the formation of condensation on the electronic components, reducing the risk of damage and corrosion.

In addition to controlling enclosure heaters, the HS01 can be utilized to regulate cooling fans, warning lights, or other devices. This means that it can be wired to activate or deactivate these devices based on the humidity levels detected by the sensor. For example, if the humidity exceeds a certain level, the HS01 can activate cooling fans to reduce the temperature inside the enclosure and maintain an optimal humidity range.

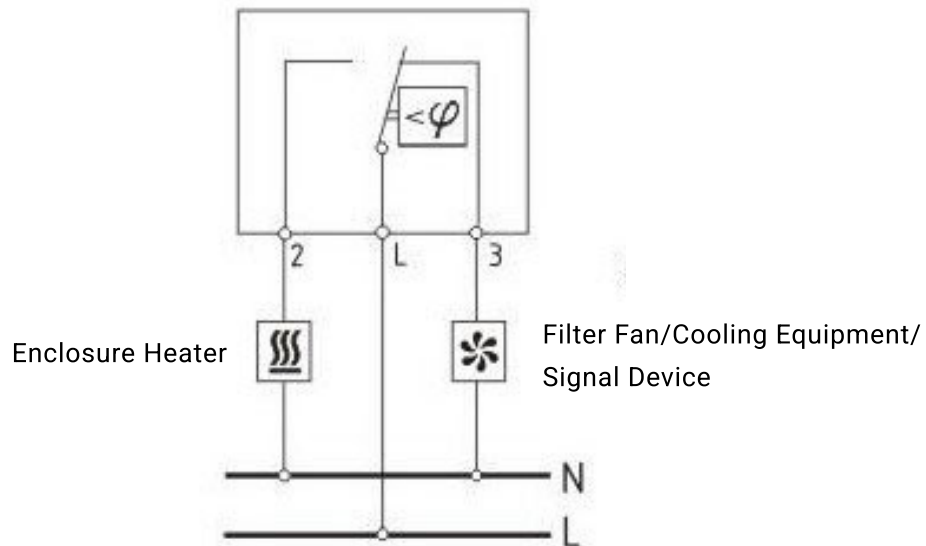
SPECIFICATIONS

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|-----------------------------------|--|
| Adjustment Range | : 35-95% relative humidity |
| Switching Difference (Hysteresis) | : Approx. 4% RH @ 50% relative humidity |
| Permissible Air Velocity | : 15 m/sec |
| Maximum Switching Voltage | : 250 VAC |
| Contact Type | : Change-Over Contact |
| Contact Resistance | : <10 M Ohms |
| Service Life | : 100,000 Cycles |
| Minimum Switching Capacity | : 100mA @ AC/DC 20 V |
| Maximum Switching Capacity | : 5A @ AC 230 V (resistive load) 1.0A @ AC 230 V (inductive load at $\cos \phi = 0.8$) |
| Connection | : 3-pole terminal, 3 x AWG 14 max. (2.5 mm ²) |
| Housing | : Clip for 35 mm DIN rail (EN 50022) |
| Dimensions (H X W X D) | : 67 x 50 x 38 mm |
| Mounting | : Plastic |
| Weight | : 60g |
| Operating Temperature | : 0 To 60°C Storage Temperature : -20 To 80 °C |
| Protection Type | : IP 20 |
| Application Examples | : Electrical & Electronic Enclosures : Telecommunication Systems : Display Panel : Ticket Dispensers : Automatic Teller Machines (ATM's) : Access & Parking Control Systems |

DIMENSIONS



WIRING



⚠ 250V should only be switched on in a non-condensing environment!



FUTURISTIC TECHNOLOGIES

232, Sunrise Mall, Mansi Circle, Vastrapur, Ahmedabad, Gujarat 380015, INDIA

☎ +91 6355915927

✉ sales@futuristictechnologies.co.in

🌐 www.futuristictechnologies.co.in