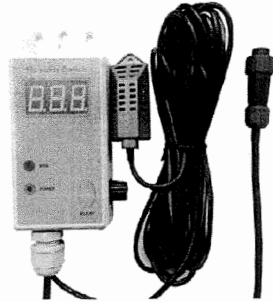


## Product Specifications for humidity switch

### 1. Application:

This specification is applied to the Humidity switch Type HG-HSW-V030-LS05DC, the product provides control for humidifying or dehumidifying.



#### Remarks:

- 1) Each product includes three parts:  
Controller, humidity probe, air plug
- 2) Controller size: 122mm\*62mm\*27mm

### 2. Electrical Characteristics

- 1) Supply voltage: DC(12V~24V)
- 2) Consumption Power: 2Wolt max.
- 3) Humidity probe: 0-3V output with 5m long cable
- 4) Relative humidity range: 20%-95%RH
- 5) Accuracy: humidity  $\pm 5\%$ RH (at 25°C, 60%RH)

### 3. Functiona Description

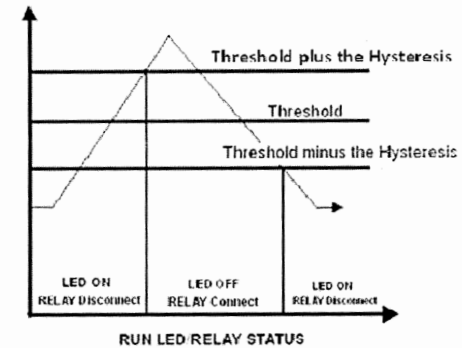
- 1) When power on self test:all three LED light 0.5 seconds, 0.5 seconds off, flashing twice.
- 2) once self-test is completed, display the current humidity measurements.
- 3) rotating the knob, the display automatically switches to the threshold mode, displays the current threshold, if no action within 5 seconds, return to the humidity display mode,and save the curent threshold.
- 4) Threshold display format for the "L60", "60" indicates that the current setting of dehumidifiers threshold, the threshold can be adjusted by the knob.
- 5) When detected,the relative humidity of current environment is higher than the setting threshold, relay closed,and the relay LED "RUN" off.

### 4. Threshold adjustment method

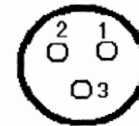
Turn the knob, the digital display shows the humidity threshold mode to display mode, turn the knob to adjust to the desired threshold, wait 5 seconds after the threshold is automatically saved to return humidity display mode.

### 5. Controller Working state diagram

When the humidity is higher than the "Threshold plus the hysteresis", the relay closed and the relay LED "RUN" off. When the humidity is lower than "Threshold minus the hysteresis", the relay off, the relay LED RUN lights. As shown below, (Hysteresis equal to 5 when factory setting)



### 6. Pin Arrangement of air plug



- Pin1: Positive Power Supply
- Pin2: DC12V Output (When relay close)
- Pin3: Negative Power Supply