



## Anti-freeze switch

TF60-P Series low temperature cutout controls are available with SPDT contact action. Typical applications include the sensing of low temperature conditions to avoid overcooling or icing of hydronic coils, cooling coils and liquid handling pipes. The controls are compact and sturdy, and have an adjustable temperature set point range with a fixed differential.



### Features

**Application:** AHU (chilled/hot water) anti-freeze alarm device

**Temperature setting range:** 1~7.5

**Degree of protection:** IP54

**Temperature return difference:** 2~3.5

**Threshold of temperature:** 80

**Capillary length:** 3m

**Switch type:** SPDT, provide NO or NC node

**Electrical rating value:** < 4A/250VAC < 6A/125VAC

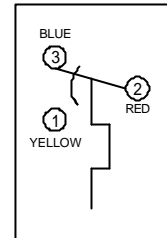
**Accessories:** 4 plastic expansion plug, 4 installation s crew

## Electrical Rating

<b>Motor Ratings VAC</b>	125	250
<b>Non-inductive Load A</b>	8	5
<b>AC Full Load A</b>	6	4

## Operation

When the temperature drops to the dial settings, the switch circuit opens, and does not close until the temperature rises to 2.5 ° higher than the dial settings .



2 to 1 closes with  
2 to 3 opens when  
temperature drops  
to the dial settings

**TF60-P Series Terminal Arrangement for SPDT**

## Mounting

Mount the temperature control on a wall where it will be exposed to the average temperature of the controlled space. Do not mount where it will be affected by unusual heat or cold. Do not mount on an outside wall or where temperature at the capillary exceeds 80 °. The TF60-P may be mounted to the wiring conduit or to a flat surface which screws through the holes provided in back of the case.

Do not dent the sensing coil of this temperature control. A dent will change the calibration and cause the temperature control to cycle at a temperature lower than the dial setting.

### Wiring

Make all wiring connections using copper conductors only, and accordance with the National Electrical Code and local regulations.

### CAUTION

On rough or uneven mounting surfaces, use the top two mounting holes only. When the temperature controls are mounted on rough or uneven surfaces using screws in all four holes, the case can be twisted enough to affect the temperature control's calibration and operation.

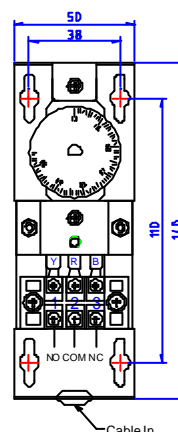
### CAUTION

Disconnect the power supply before wiring connections are made to avoid possible electrical shock or damage to equipment.

## Wiring

To make wiring connections, proceed as follows:

- Remove the knob on the dial by loosening the screw in the side of knob.
- Loosen the cover screw and remove the cover.
- Insert the wire leads through the conduit opening.
- Make wiring connections to the screw type terminals. (See Fig. 3 )
- Replace the cover and knob when wiring is completed.



**Fig. Dimensions and Wiring Connections**

Do not use the temperature control on applications where the electrical ratings exceed the ratings shown on the Electrical Ratings label.