

FC-130

Product Information Installation Instructions

APPLICATION

Model FC-130 preset remote bulb thermostat is designed for use primarily for electric resistance heating. The switch contacts open when the temperature surrounding the bulb rises above 130° F (54° C) to turn off the heat. When the temperature drops, the contacts close to turn on the heat.

The FC-130 thermostat is designed for use only as an operating or regulating control. Where failure of the FC-130 could result in personal injury and/or loss of property, an approved backup temperature limit control should be connected in series or a supervisory alarm system should be used to warn of control failures.

DESCRIPTION

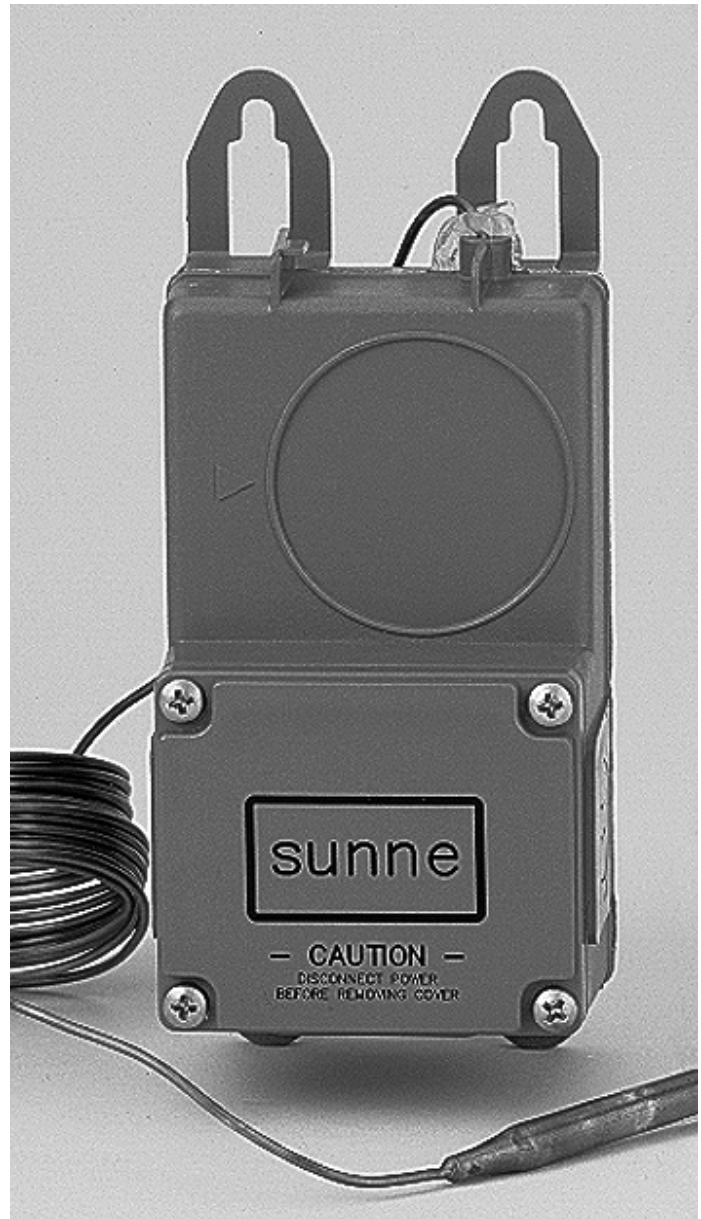
This unit has been tested by Underwriters Laboratories Inc. (UL), and meets the requirements for NEMA 4X equipment, and is suitable for use under the National Electrical code (NEC) Article 547-4, when used with appropriate watertight connectors (not included).

SPECIFICATIONS

Switch Action	Open on rise, snap action.
Contact Structure	Single pole.
Differential	5° F (-15° C) approx.
Operating Set-point	130° F (54° C) fixed.
Electrical rating	25 Amperes (non-inductive) 120-240 V. 22 Amperes (non-inductive) 277 V.
Capillary length	10 feet (3.05m).
Maximum bulb withstand temperature	165° F (74° C).
Maximum housing withstand temperature	140° F (60° C).

SAFETY INFORMATION

1. Be certain that the electrical load to be controlled does not exceed the thermostat rating.
2. Disconnect all power before installing or servicing.
3. Installation must be made by a trained, qualified service person.
4. Use copper wire only. Insulate or wire-nut all unused leads.
5. This thermostat is NOT to be used in potentially flammable or explosive atmospheres.



INSTALLATION

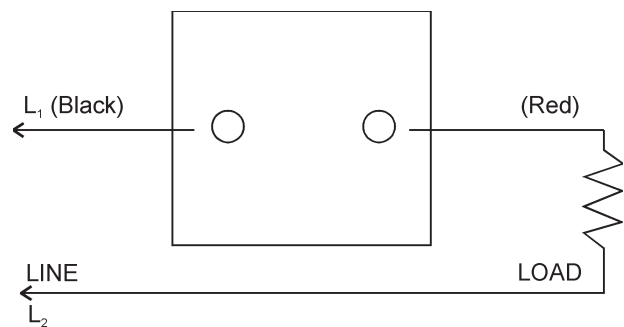
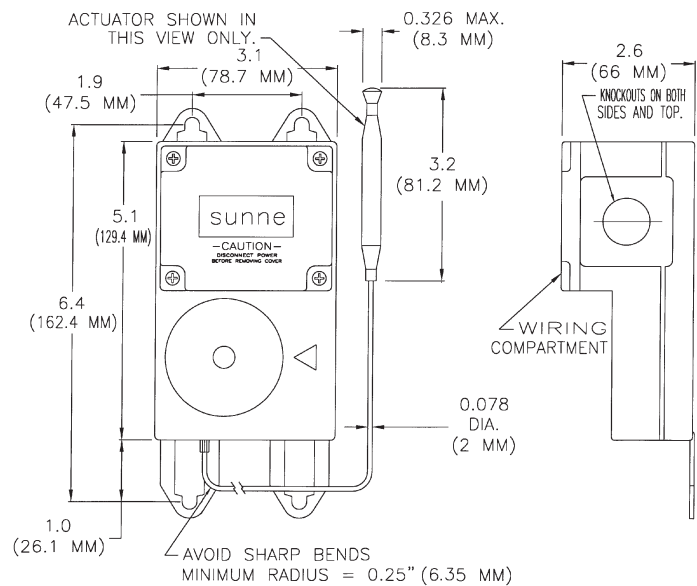
1. The sensing bulb should be located in an area of highest expected temperature of the medium being controlled.
2. Care should be taken not to damage the capillary tube. Do not kink the capillary.
3. Do not dent or bend the sensing bulb as this will change the control calibration.
4. The switch may be mounted in any convenient location provided that the ambient temperature surrounding the switch does not exceed 140° F (60° C).
5. Determine the desired thermostat mounting orientation and which knockouts will be used for wiring connection.
6. Remove the desired knockout(s) by impacting near the inside edge of the knockout to be removed. **Wear safety goggles.** Using a hammer to hit the end of a punch, rod or screw-driver held against the knockout will facilitate removal. **CAUTION:** When removing the end knockout, do not support the thermostat on the sensor-support on the long mounting legs.
7. Four slotted mounting feet are provided - on a rough, uneven or curved mounting surface only two mounting screws need be used. Do not over tighten mounting screws.
8. The thermostat may be installed using conduit, suitable flexible cable, or other code approved wiring method. All fittings and materials used for the installation should be approved and suitable for the application and installed in accordance with their instructions.

CAUTION Except where application, applicable codes or ordinances do not require water tightness, the conduit hub should be UL listed and be marked 4X. The conduit hub is to be tightened onto the conduit before installing in the enclosure.

9. A drip loop should be provided to prevent water or other liquids from entering the thermostat housing. The cable or conduit connections to the enclosure must be water and dust tight. Even though the FC-130 is sealed, water or dust could enter through improperly sealed wiring.

10. Complete the wiring by connecting the lead wires in the wiring box, as shown in the wiring diagram using wire nuts (not provided). A green lead wire is provided for connection to the line and equipment ground wire. After connection, all wiring should be pushed back into the wiring compartment.

11. Install the wiring compartment cover and fasten using all four screws provided; do not substitute other screws. The cover is provided with a resilient gasket. The cover screws must be tightened securely to compress the gasket and provide a watertight seal. **Do not over tighten.** After tightening screws, a gap of approximately 1/32" to 1/16" (.79mm to 1.59mm) will exist between the rim of the removable cover and the thermostat body.



CAUTION: Insulate the end of unused lead wires. Green ground lead wire must be connected to wiring system ground as required by applicable codes. Failure to do this could result in the hazard of electrical shock.

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US T. (800) 537-4732 / F. (888) 324-2440
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