





1. INPUT VOLTAGE TO THE RELAY, VOLTAGE OF THE RELAY ITSELF AND THE VOLTAGE OF THE MAT SHOULD BE ALWAYS THE SAME.
2. IF MULTIPLE MATS ARE USED, IT MAY BE EASIER TO RUN THE COLD LEADS TO A JUNCTION BOX FIRST, AND THEN CONNECT THE JUNCTION BOX TO THE RELAY.
3. RELAY IS RATED FOR 22 AMPS MAX. 30 AMP MAX BREAKER WITH 5mA GFCI IS REQUIRED.
4. ADDING A COMMON "C" WIRE IS NOT REQUIRED IN 99% OF INSTALLATIONS.
5. USE A 22-18 AWG SIZE SOLID COPPER WIRE BETWEEN RELAY AND NEST THERMOSTAT BASE. THE EXPOSED WIRE SHOULD BE 3/8" AND STRAIGHT.
6. LOCAL ELECTRICAL CODE MAY REQUIRE THE USE OF E.N.T. TUBING TO PROTECT ANY LOW VOLTAGE WIRES IN THE SAME JUNCTION BOX AS HIGH VOLTAGE WIRES.

- THE RC840T MUST BE INSTALLED IN AN AREA WHERE THE TEMPERATURE IS BETWEEN -4°F AND 140°F
- THE RC840T CAN BE INSTALLED ON THE SIDE OF THE PRESENT BOX OR INSIDE OF A SEPARATE ELECTRICAL BOX OR A DISTRIBUTION PANEL.
- ALL WIRING MUST COMPLY WITH NATIONAL AND LOCAL ELECTRICAL CODE REGULATIONS.
- INSTALLATION SHOULD BE CARRIED OUT BY A LICENSED ELECTRICIAN.
- DISCONNECT POWER SUPPLY BEFORE INSTALLING THE RELAY TO PREVENT ELECTRICAL SHOCK.
- SECURE RELAY TO THE MOUNTING SURFACE USING THE TWO MOUNTING BRACKETS. USE THE SUPPLIED LOCK NUT TO SECURE THE RELAY TO THE JUNCTION BOX.
- WIRE THE RELAY AND CONNECT ACCORDING TO TYPICAL WIRING DIAGRAMS. ONCE MOUNTING AND WIRING HAVE BEEN COMPLETED, RETURN POWER TO THE HEATING SYSTEM AND TEST THE INSTALLATION.
- INCREASE THE THERMOSTAT TEMPERATURE TO ACTIVATE THE RELAY. ALLOW THE SYSTEM TO OPERATE LONG ENOUGH TO CONFIRM CORRECT INSTALLATION. ONCE INSTALLATION HAS BEEN CONFIRMED, SET TEMPERATURE TO NORMAL SETPOINT.

ENSURE THE SYSTEM IS GROUNDED