SC-T32-S1 / SC-T32-S2
Indoor Remote Sensor
(USE WITH SC-T32-P AND SC-T32-TS THERMOSTATS)

APPLICATION
The SC-T32-S1 Indoor Temperature Sensor is used with the Comfort System SC-T32-P and SC-T32-TS thermostats. The S1 model contains a single thermister and the S2 model contains two (2) thermisters in series. A combinations of both sensors can be used for indoor temperature averaging to simplify wiring.

SPECIFICATIONS
Operating Ambient Temperature Range:
-40 to 140° F

Indoor Temperature Display Range:
SC-T32-P   (41 to 122° F)
SC-T32-TS (41 to 122° F)
T-21-P   (41 to 99° F)

Sensor Type:
NTC Type 2, 10KΩ @ 77° F

Sensor Accuracy:
+/- 3% @ 77° F

Operating Relative Humidity:
5% to 95% RH (non-condensing)

Enclosure Dimensions:
3.00" x 2.125" x 1.125" (H x W x D)
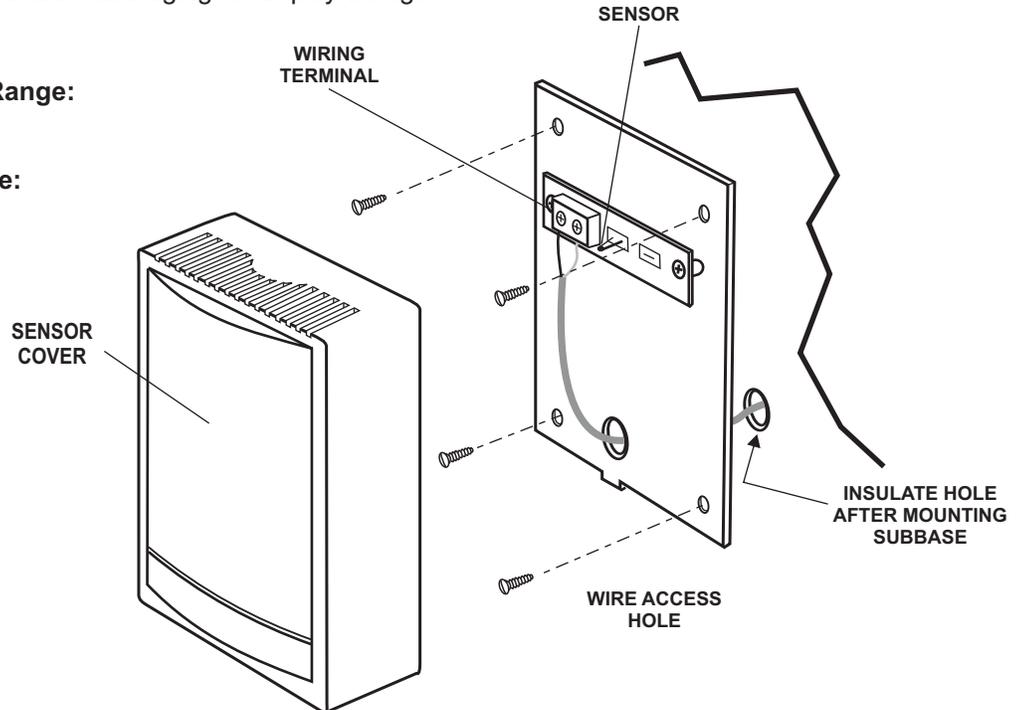
IMPORTANT
1. Keep wiring at least one foot away from large inductive loads such as motors, line starters, lightning ballasts and large power distribution panels.
2. Use shielded cable to reduce interference when wire can not be rerouted.
3. Use a separate 18-2 cable when wiring sensor to the thermostat.
4. Do not route sensor cable with line voltage power wires, near control contactors, light dimming circuits, electric motors or welding equipment.
5. Make sure that all wiring connections are secure.
6. Avoid intermittent or missing building earth ground.
7. Wiring must be in compliance with all applicable codes.

LOCATION AND INSTALLATION
1. Mount the sensor(s) in a location that represents the ambient space temperature being controlled.
2. Do not install the sensor(s) in an area where drafts are present, near the floor, behind doors or on an external wall.
3. Avoid locating the sensor(s) in areas where the air movement is limited, affected by direct sunlight or other areas not typical of the temperature in the space.
4. Remove the cover from the subbase. (See illustration)
5. Pull the sensor cable through the wire access hole on the subbase and mark the mounting screw locations.
6. Use the mounting hardware supplied with the sensor.
7. Land the sensor cable to the screw terminals located on the sensor PC board.
8. Seal the wire access hole to prevent any drafts that might affect the sensor.
9. Replace the sensor cover.
10. Refer to SC-T32-P and SC-T32-TS thermostat installation manual for indoor sensor wiring and installer setup options.

SC-T32-P and SC-T32-TS SERIES PARALLEL REMOTE SENSOR COMBINATIONS
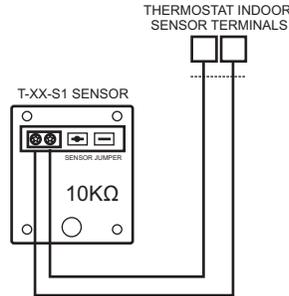
1 REMOTE SENSOR
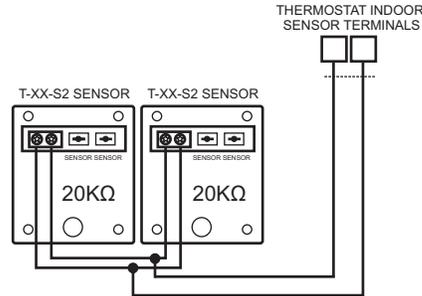
2 REMOTE SENSORS
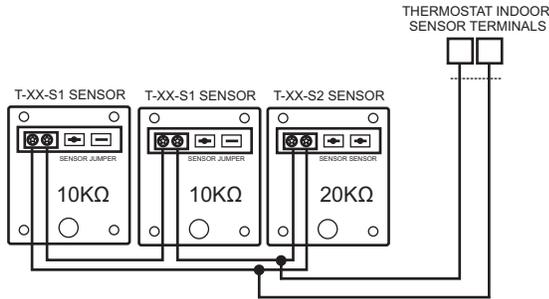
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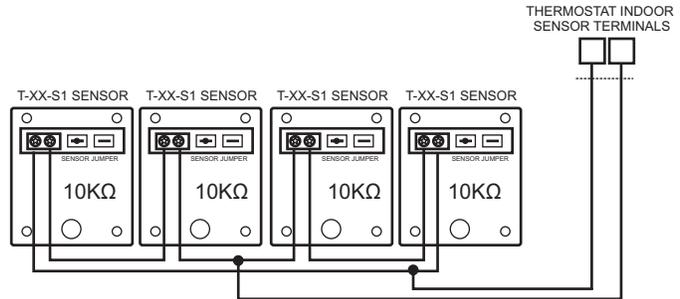
4 REMOTE SENSORS

6 REMOTE SENSORS
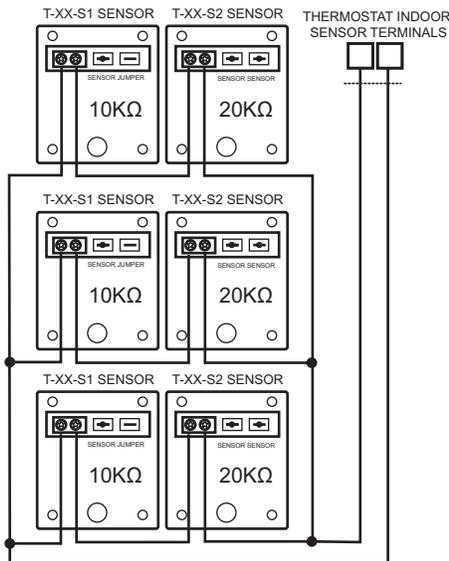
9 REMOTE SENSORS
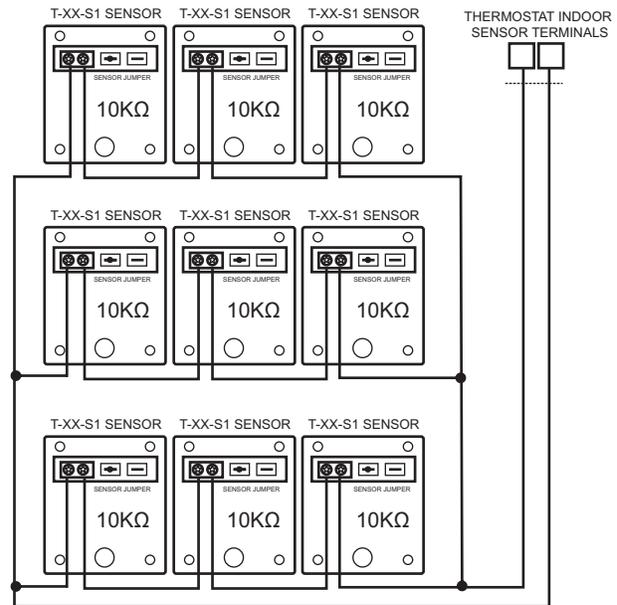
Multiple remote sensors can be connected the the SC-T32-P or SC-T32-TS remote sensor terminals for temperature averaging. The S1 sensor contains one (1) 10KΩ sensor and the S2 sensor contains two (2) 10KΩ sensors wires in series. In the above combinations, the sensors are wired in series/parallel and their total value equals 10KΩ. If the internal thermostat sensor is used as one of the temperature averaging points, it is not part of the equation but will always represent 50% of the total averaging value.

SPECIFIED CONTROLS