

Part Description: Probe, 20' Orange Defrost Term. Sensor  
Assembly: 501-1127

Borgen Part Number: 50804

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# Defrost Termination Temperature Sensor

## Product Information Sheet

501-1127

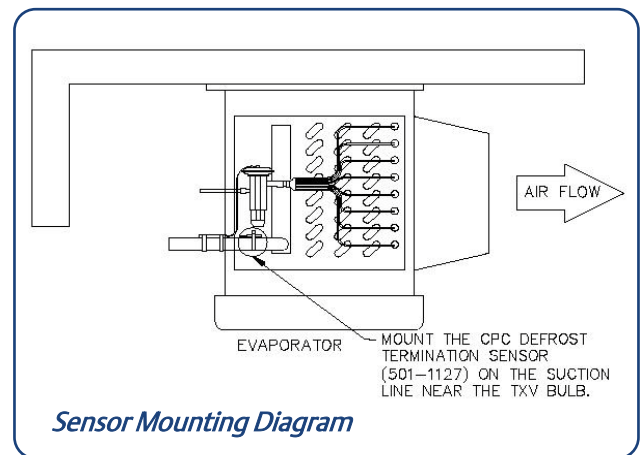
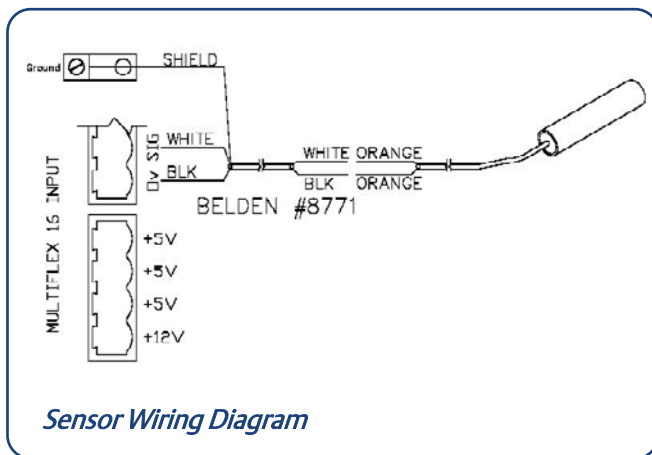
### Overview

The 501-1127 is CPC's defrost termination temperature sensor designed for measuring the coil temperature of an evaporator. The temperature sensor has a 10K  $\Omega$  thermistor. The thermistor is enclosed in a nickel-plated brass shell with epoxy. The sensor has an orange 20' pigtail. The wire is 22 AWG CL3X cord with 2 conductors. The cable is UL rated for 194°F (90°C). The sensor has been tested by CPC to maintain less than 0.72°F error between -40 and 248°F.

### Installation

The sensor connections to the input point on the 16AI board are not polarity sensitive. The sensor is connected as shown below in the Sensor Wiring Diagram. The sensor can be wired to any available point on the 16AI board. Connect one lead to 0V input, and connect the lead to the SIG input. The sensor has a male mulex connector for use with a TD3 or Case Controller.

The dip switch for the 16AI input should be set to the ON position.



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### Resistance Chart

The accuracy of the resistor can be verified using an Ohm meter. The chart below shows the resistance for various temperatures.

Temperature (°F)	Temperature (°C)	Resistance (Ohms)
-40	-40	336
-30	-34	234
-20	-29	165
-10	-23	118
0	-18	85
10	-12	62
20	-7	46
30	-1	34
40	4	26
50	10	19
60	16	15
70	21	11
80	27	9
90	32	7
100	38	5
110	43	4
120	49	3
130	54	3
140	60	2
150	66	2

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