

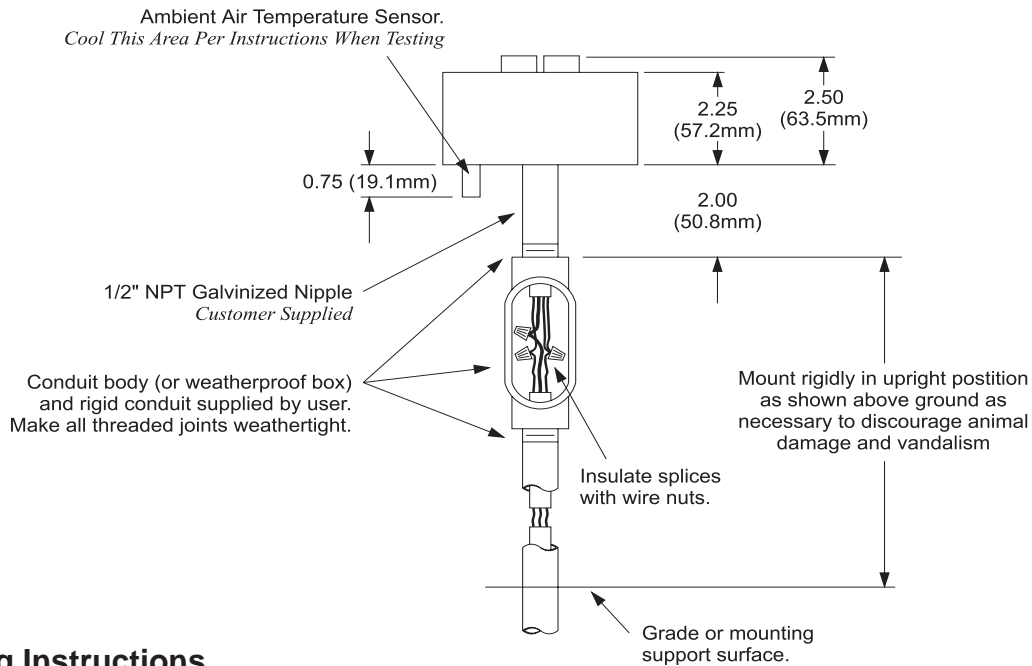
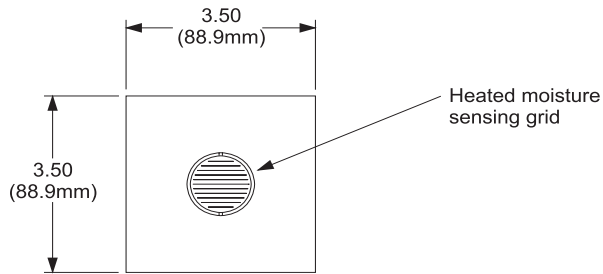


# INSTALLATION MANUAL

## for

### LCD™-1, LCD™-2 & LCD™-3 Snow Switches® LCD™-4 Automatic Rain Blower

<u>Part Number</u>	<u>Description</u>
15898	LCD-1 Snow Switch (UL Listed) 120 VAC
16119	LCD-1 Snow Switch (CSA Certified) 120 VAC
15914	LCD-2 Snow Switch (UL Listed) 120 VAC
16120	LCD-2 Snow Switch (CSA Certified) 120 VAC
15903	LCD-3 Snow Switch (U-L Listed) 120 VAC
16121	LCD-3 Snow Switch (CSA Certified) 120 VAC
16040	LCD-3 Snow Switch (U-L Listed) 240 VAC
15910	LCD-4 Automatic Rain Blower (U-L Listed) 120 VAC
16122	LCD-4 Automatic Rain Blower (CSA Certified) 120 VAC



### Mounting Instructions

Mount sensor securely in upright position in clear (open) area typical of area to be melted, either above roof line or removed from building as to not be protected from the falling snow

**AVOID** overhead trees, shrubs, wires, eaves, etc., and following or blowing debris.

**AVOID** vehicle and foot traffic. Do not create a safety hazard.

**AVOID** exposure to artificial heat sources and excessive shock and vibration.

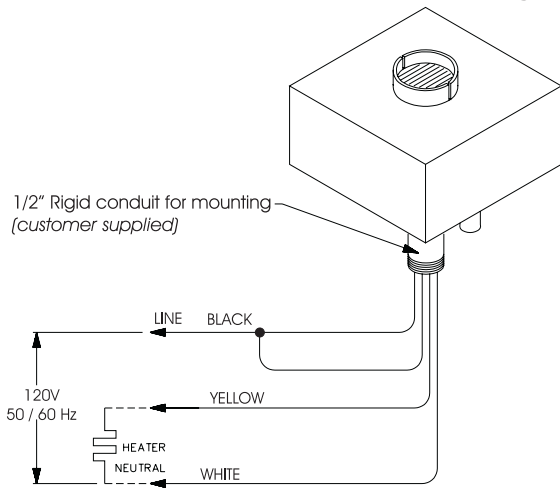
**Install per all applicable electrical and building codes and regulations.**

### Disclaimer

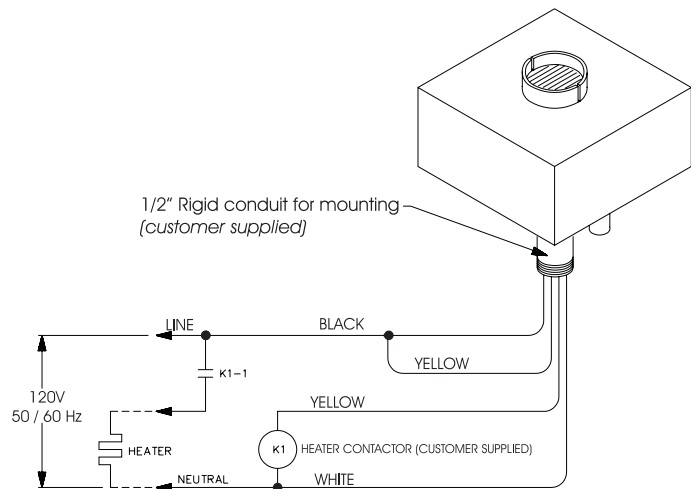
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Install in accordance with the requirements of all applicable electrical and building codes and regulations. Ensure that all conduit/cable terminations are watertight.



120 VAC, load to 16 amps

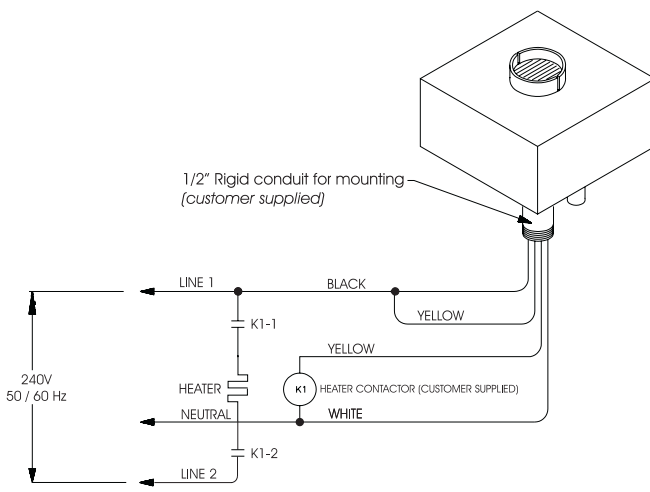


120 VAC, load greater than 16 amps

**Post-installation Snow Switch® test**

Most problems result from installation errors. Before testing, verify that unit is properly installed.

1. Connect power to snow melting system. Wait fifteen seconds, system should not actuate.
2. Using ice water or other cooling agent (LCD-2, LCD-3 and LCD-4 will not switch below 17°F, cool ambient air temperature sensor below 38°F(3.3°C), system should not actuate. Apply moisture to moisture sensing grid, system should actuate in less than 15 seconds.
3. Dry moisture sensing grid. Disconnect power to snow melting system. Wait one minute, then reconnect power. If system actuates ensure sensing grid is dry and ambient air temperature is above 38°F(3.3°C), then repeat this step.



240 VAC (for 240 VAC sensors only)

	LCD-1	LCD-2	LCD-3	LCD-4
Environmental Operating temperature range (Min/Max)	-40/140°F (-40/60°C)	-40/140°F(-40/60°C)	-40/140°F (-40/60°C)	-40/140°F(-40/60°C)
<b>Operating temperature</b>				
Setting	38°F (3.3°C)	38°F (3.3°C)	38°F (3.3°C)	—
Tolerance (+/-)	1.5°F (-17°C)	1.5°F (-17°C)	1.5°F (-17°C)	—
<b>Lockout temperature</b>				
Setting	—	17°F (-8.3°C)	17°F (-8.3°C)	17°F (-8.3°C)
Tolerance (+/-)	—	2°F (16.6°C)	2°F (16.6°C)	2°F (16.6°C)
<b>Hold-On Timer</b>				
Nominal timer	5 Hr.	5 Hr.	1 Hr.	1Hr.
Tolerance (+/-)	1%	1%	1%	1%
<b>Output Relay</b>				
Rated Voltage (volts a-c 50/60 Hz)	120 Volts	120 Volts	120/240 Volts	120/240 Volts
Maximum Load	16 Amps	16 Amps	16 Amps	16 Amps
<b>Supply</b>				
Rated Voltage (volts a-c 50/60 Hz)	120 Volts	120 volts	120 Volts	120 volts
Tolerance (+/-)	10%	10%	10%	10%
Maximum Power	8 Watts	8 Watts	8 Watts	8 Watts

**QUESTIONS AND COMMENTS**

For technical help, questions or comments concerning this product or any of Environmental Technology, Inc. products contact the Customer Service Department between 8:00am and 5:00pm EST (UTC minus five hours) at

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