

LC-110 (LED and buzzer)

LC-210 (LED only)

SAFETY GUIDELINES



1. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KEROSENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES. SWITCH SHOULD ONLY BE USED WITH WATER.
2. DO NOT HANDLE SWITCH WITH WET HANDS OR WHEN STANDING ON A WET OR DAMP SURFACE, OR IN WATER.
3. DISCONNECT ALL ELECTRICAL SERVICE TO THE SWITCH BEFORE WORKING ON OR HANDLING THE UNIT.
4. DO NOT CONNECT TO VOLTAGE ABOVE 24VAC MAXIMUM OR AMPERAGE ABOVE 1.0 AMP.
5. DO NOT OPERATE UNLESS COMPLETELY ASSEMBLED.
6. IN ANY INSTALLATION WHERE PROPERTY DAMAGE AND/OR PERSONAL INJURY MIGHT RESULT FROM AN INOPERATIVE SWITCH DUE TO POWER OUTAGES, OR ANY OTHER REASON, A BACKUP SYSTEM(S) AND/OR ALARM SHOULD BE USED.
7. DO NOT MODIFY, CUT, SAW, SAND OR GRIND ANY PART OF THE CONDALERT. DOING SO MAY CAUSE HARMFUL EMISSIONS.

CONDALERT™

CONDENSATE OVERFLOW DETECTION AND CONTROL SHUTDOWN FOR SECONDARY/AUXILIARY CONDENSATE DRAIN SYSTEMS

INTRODUCTION

Before proceeding with the installation or operation of the Little Giant Condalert™, read all instructions thoroughly, as well as complying with all Federal, State and Local Codes, Regulations and Practices. The Condalert™ must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes.

The Little Giant Condalert™ is designed for the air handling industry to detect condensate drain overflow water in the secondary/auxiliary drain system and shut down the condensing unit so the cooling coil will not produce more condensate water. When the Condalert™ detects water, in the secondary drain system, the Condalert™ will activate its visual red LED and audible buzzer (Model LC-110), while at the same time shutting down the condensing unit to prevent condensate water accumulations. When the probes are dried, the Condalert™ will automatically reset the system to normal operation.

The solid state circuitry is encapsulated in epoxy, making the unit waterproof and tamperproof. The probes are stainless steel and will not rust. More than one Condalert™ may be installed on a troublesome unit to provide complete area protection. The Condalert™ may be connected to a monitoring unit or a remote alarm.

The Condalert™ must be installed in a 24 Volt AC Class 2 control circuit. Make electrical connections between the air handler and the condensing unit control for proper operation.

SPECIFICATIONS

Voltage:	24 VAC, (Class 2 Control Circuit)
Switching Current:	1.0 Amp, 24VAC Max.
Operating Current:	49 mA (alarm/shutdown with buzzer) 30 mA (alarm/shutdown without buzzer)
Cable Length:	10'

CONNECT THE CONDALERT BETWEEN THE LOW VOLTAGE (24 VAC) HVAC CONTROLS AND THE CONDENSING UNIT CONTROL CIRCUIT.

IF THE CONDALERT GOES INTO ALARM CONDITION DUE TO WATER DETECTION, THE RED LED AND ALARM BUZZER (ON MODELS WITH BUZZER) WILL ACTIVATE. AT THE SAME TIME THE COMPRESSOR/CONDENSOR UNIT WILL SHUT DOWN. THE AIR HANDLER FAN WILL STILL OPERATE TO PROVIDE AIR CIRCULATION IF INSTALLED PROPERLY.

IF THE CONDALERT IS CONNECTED BETWEEN THE THERMOSTAT AND HVAC CONTROL SYSTEM, THIS WOULD PREVENT AIR HANDLER FAN FROM OPERATING.

1. Turn off all power to the air handler and condensing unit.

Install Condalert Control Main Unit in Secondary/Auxiliary Pan

2. Determine location for leak detection. Place the Condalert in drain pan whenever possible. Condalert may be set in pan or attached in location using the double sided tape provided (see Figures 1 and 2). Do not attach to the pan until testing is complete.

Figure 1

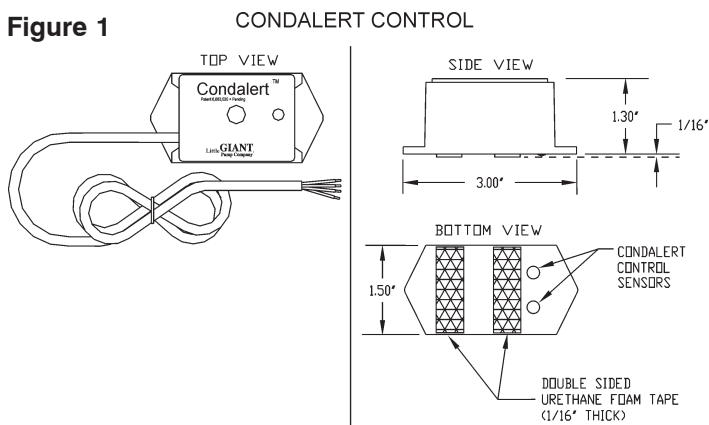


Figure 2

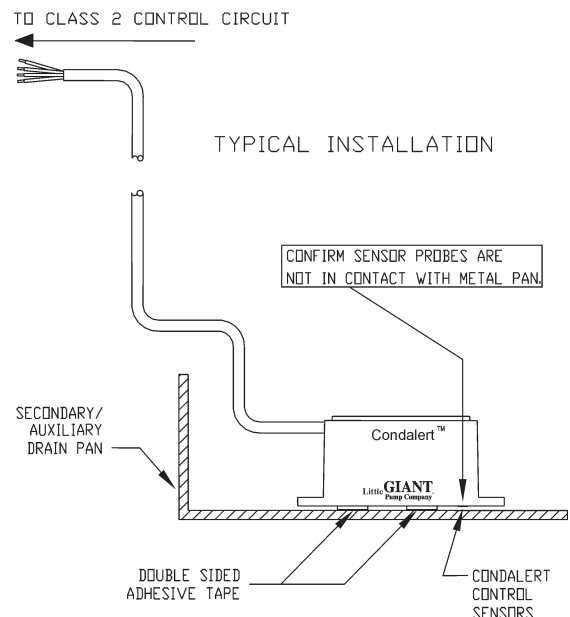
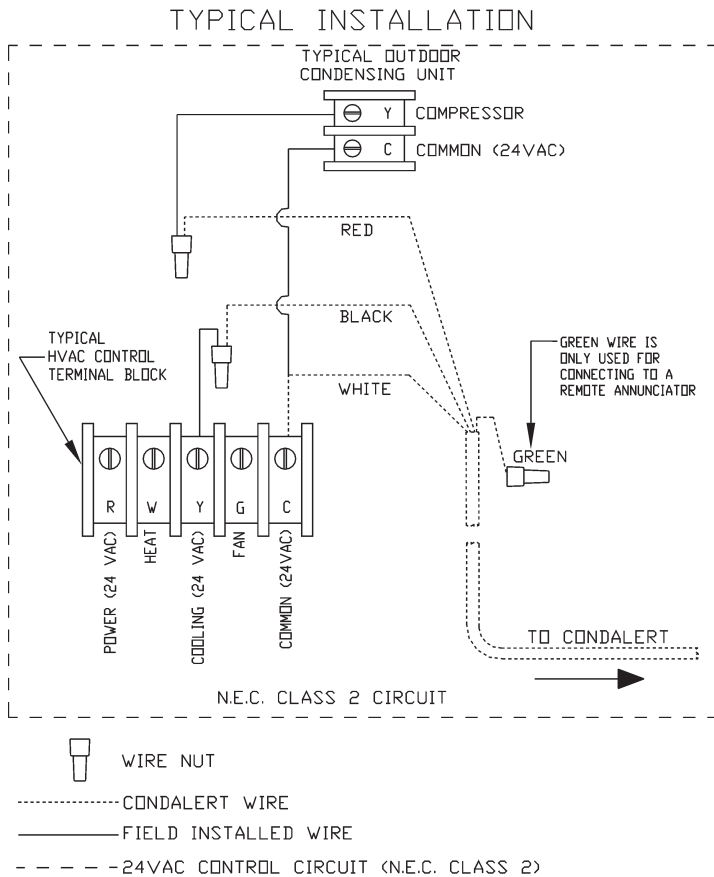


Figure 3



If you do not have a drain pan, place the Condalert under or near the air handler where condensate over flow will collect. A water stain from a previous over flow marks a good location. **CAUTION: CONFIRM CONDALERT CONTROL SENSORS ARE NOT IN CONTACT WITH SURFACE.**

Connect Control Wires

3. Locate the two 24 VAC low voltage control wires that run from the air handler, out to the condensing unit (See Figure 3 for Typical Installation Wire Diagram). Carefully strip off the outer cable insulation and cut the 24 volt cooling control wire then make the “black” and “red” connections per Figure 3. **The cut wire that comes from the air handler must connect to the “black” wire of the Condalert.** The cut wire that goes to the condensing unit must connect to the “red” wire of the Condalert. The “white” wire from the Condalert connects to the remaining common 24 volt wire that was not cut. It is recommended to put a delay on make timer on condenser contactor coil to prevent short cycling. The “green” wire from the Condalert is used for a remote annunciator installation. If you are not using a remote annunciator, do not make any connections to the “green” wire.
4. Turn on power to the air handler and the condensing unit. Set the thermostat to call for the air conditioner to start. Check that the air handler and condensing unit are both operating. Place the Condalert Control Sensors onto a wet paper towel. The sensors are 2 stainless steel pins located on the bottom of the Condalert Control box. The Condalert will go into alarm condition when the sensors are wet. The red LED will illuminate and the buzzer will sound (buzzer model only). Check to see that the condensing unit is shut down and the air handler fan is still running. After test, dry off the Condalert probes on the bottom of the unit. Finally attach the Condalert Control to the secondary pan with the double sided tape if you require.

LIMITED WARRANTY

Your Little Giant product is guaranteed to be in perfect condition when it leaves our Factory. It is warranted against defective materials and workmanship for a period of 12 months from date of purchase by the user. Any product that should fail for either of the above two reasons and is still within the warranty period, will be repaired or replaced if returned prepaid to our Factory. For our customers in the CONTINENTAL UNITED STATES: Please return the defective unit, postage paid, to the factory at 301 North MacArthur Blvd., Oklahoma City, OK 73127-6616. All defective products returned under warranty will be fully inspected to determine “CAUSE OF FAILURE” before any warranty is approved. Little Giant will honor the warranty within the warranty time period specified on satisfactory written proof of purchase.

DISCLAIMER: Any oral statements about the product made by the seller, the manufacturer, the representatives or any other parties, do not constitute warranties, shall not be relied upon by the user, and are not part of the contract for sale. Seller’s and manufacturer’s only obligation, and buyer’s only remedy, shall be the replacement and/or repair by the manufacturer of the product as described above. Neither seller nor the manufacturer shall be liable for any injury, loss or damage, direct, incidental or consequential (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss), arising out of the use or the inability to use the product, and the user agrees that no other remedy shall be available to it. Before using, the user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. THE WARRANTY AND REMEDY DESCRIBED IN THIS LIMITED WARRANTY IS AN EXCLUSIVE WARRANTY AND REMEDY AND IS IN LIEU OF ANY OTHER WARRANTY OR REMEDY, EXPRESSED OR IMPLIED,

WHICH OTHER WARRANTIES AND REMEDIES ARE HEREBY EXPRESSLY EXCLUDED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Warranty will be **VOID** if any of the following conditions are found:

1. Product connected to voltage other than indicated on nameplate.
2. Product abuse by customer.
3. Product used in a corrosive environment.
4. Product was used other than intended as described in the introduction of this Installation Guide.

For parts or repair, please contact 1.888.572.9933
For technical assistance, please contact 1.888.956.0000

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