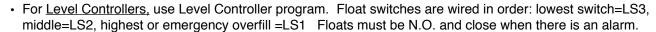
# PCB INSTALLATION -LEVEL CONTROLLER

### 1. PCB PREPARATION

- This PCB runs from line power only. (not battery)
- Solder power supply to the board as shown for 110VAC.

## 2. FIRMWARE

- There are two programs for the same pcb: either Drumalarm or Level Controller.
- For a <u>Relay Output</u> option use the Drumalarm program and wire float to LS1, and jumper or second float to LS3. Floats must be N.C. and open when there is an alarm.

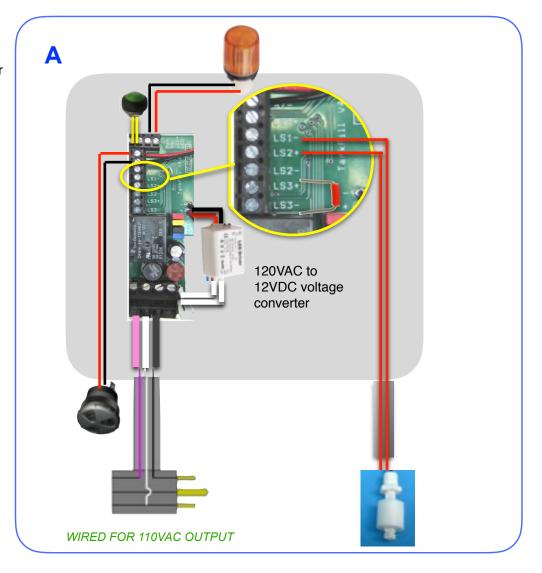




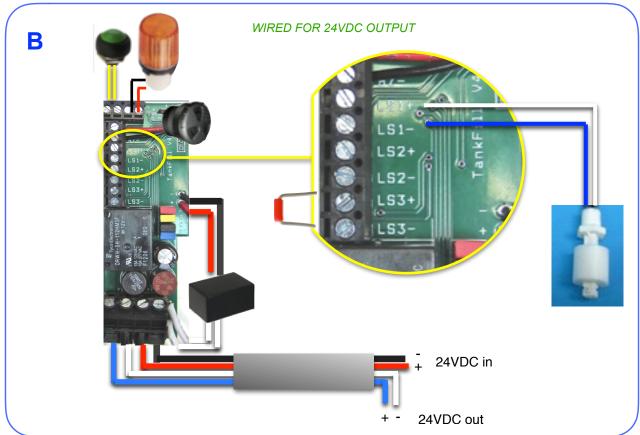
PCB PREPARED FOR 110VAC OUTPUT

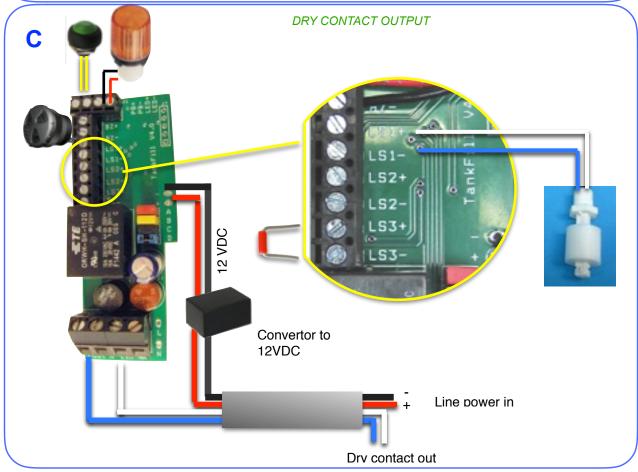
#### 3. WIRING

 The PCB can be wired for either 110VAC, DC output or dry contact.



# PCB INSTALLATION -LEVEL CONTROLLER





## PCB INSTALLATION -LEVEL CONTROLLER

### 4. BEHAVIOR

### **DRUM ALARM PROGRAM**

- LS2 terminals not used.
- LS3 is used for "plug detection". If no continuity then an alarm is given. Alarm pattern should be different from level alarm: BZ and LED on 3 seconds/ off 3 seconds but LED blinks 1000ms on/1000s off instead of strobing. LS3 also activates relay.
- When liquid level on LS1, an alarm is given consisting of a continuous BZ output and the LED flashes in a strobe pattern. Relay switches state.
- PB tests buzzer / LED / relay. (relay should momentarily switch state then reset when PB released)

DRUM ALARM PROGRAM				
JUMPER	DESCRIPTION	JUMPER ON	JUMPER OFF	
Α	RELAY RESET	AUTO	MANUAL	
В	SNOOZE	30 MINS	NO SNOOZE	
С	RELAY ORIENTATION	N.C	N.O.	
D	FLOAT ORIENTATION	N.C.	N.O.	

### LEVEL CONTROLLER PROGRAM

- LS1= overfill float, LS2= top LC float, LS3= bottom LC float.
- If LS2 AND LS3 floats are both open, then button pushes alternately switch the relay state.
- If LS2 and LS3 switches are closed at the same time, an alarm is given.
- If not in alarm state, PB tests buzzer/LED and switches relay state. Subsequent presses alternate relay state.
- LS1 produces an alarm and shuts off relay, independent of LS2 or LS3.
- If floats are both open circuit, then button pushes alternately switch the relay state.

LEVEL CONTROLLER PROGRAM				
JUMPER	DESCRIPTION	JUMPER ON	JUMPER OFF	
Α	FUTURE USE	_	-	
В	SNOOZE	30 MINS	NO SNOOZE	
С	LEVEL CONTROL	TANK FILLING	TANK EMPTY	
D	BUZZER BEHAVIOR	CONTINUOUS	4s ON /10 mins OFF (REPEATING)	