WEIGH-TRONIX

WI-125 Batch Controller
User's Guide

Description

The WI-125 Batch Controller is a weight indicator and a three relay control unit. The three, 12 volt relays are powered and controlled by cutoff outputs (setpoints) from the indicator.

This unit is setup to provide a fast fill output, slow final fill output and an "at zero" ouput. Internal dry contacts are provided for each output.

You, the operator, enter cutoff values into the indicator through the keypad. The cutoff outputs provide a ground potential energizing the relays. As each succeeding cutoff is reached, the associated relay is de-energized.

Figure 1
Front of the WI-125 Batch Controller

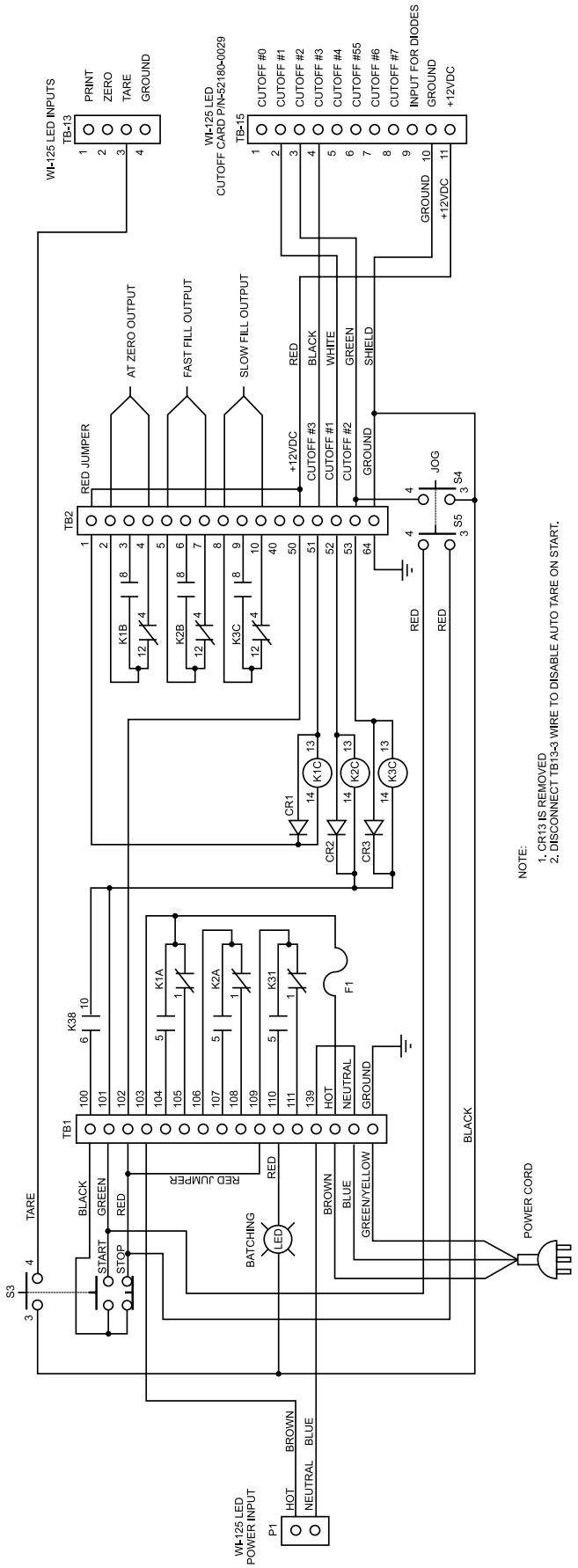
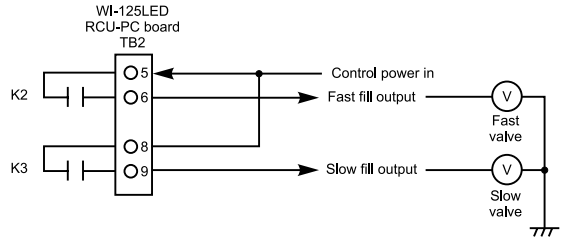


Figure 2
Wiring interconnect



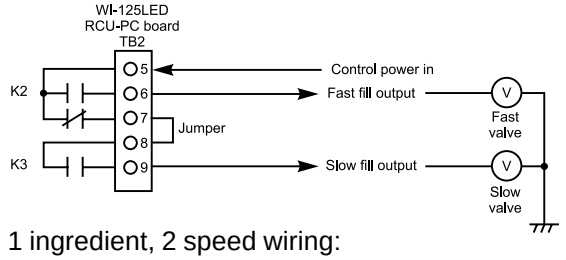
1 ingredient

2 speed (fast/slow) wiring:

For fast & slow both ON at start—fast dropping out—then slow dropping out.

Enter fast fill setpoint into cutoff channel #1
Example: 90 lbs

Enter slow fill setpoint into cutoff channel #2
Example: 100 lbs

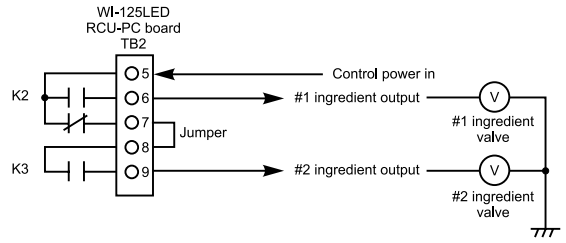


1 ingredient, 2 speed wiring:

Sequencing fast/slow, for fast ON then slow ON

Enter fast fill setpoint into cutoff channel #1
Example: 90 lbs

Enter slow fill setpoint into cutoff channel #2
Example: 100 lbs

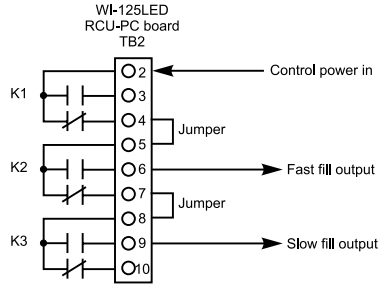


2 ingredient sequencing single speed wiring:

Enter #1 ingredient setpoint into cutoff channel #1

Enter #2 ingredient setpoint into cutoff channel #2

Third cutoff to prevent start without minimum weight on the scale.



Set cutoff #3 to minimum weight

Included Items

Included with the WI-125 Batch Controller:

- Start/Stop Switches
- Batching Light
- NEMA 4 Carbon Steel Case or NEMA 4X Stainless Steel Case

Start/Stop Switches

Use start/stop switches when cutoff values are entered in ascending order, or descending order if negative cutoffs are used. If cutoff values are entered, relays are energized when the start switch is depressed. The relays remain energized until the stop switch is depressed or until the cutoff values are reached. As each cutoff is reached, the associated relay de-energizes. Relay K3 acts as a (power on latch) latching relay and should always be the last relay in a sequence. The start switch must be depressed again before the relays will re-energize.

K1 is not controlled by the start/stop switches. K1 is connected directly to the #3 cutoff ouput and is used to signal an "at zero" condition.

This unit can be used as a fast fill and a slow fill, batching controller.

Batching Light

The batching LED cluster is controlled by K3, the final feed relay.

Entering Cutoff Values Through the Front Panel

Follow these steps to enter a cutoff value:

1. Push the **MENU** key until ***Cutoffs*** is displayed.
2. Push the **SELECT** key. . . Cutoffs 0 to 3 are displayed.
3. Push the **MENU** key to scroll through the cutoff channels.
4. Use the numeric keypad to enter the cutoff values then press the **MENU** or **SELECT** key.

Enter a fast fill value into channel #1. Enter a slow or final final value in channel #2.

For example: If you want to fill something to 100 pounds, make the first 90 pound cutoff a fast fill and the 100 pound cutoff a slow fill. This will cause the last 10 pounds to fill slowly for more accuracy.

Cutoff channel #0 is not used.

If a zero return output is required, enter the zero return value into channel #3. This should be a low value that the weight will fall below after the weight is removed from the scale.

Specifications

Relay Contact rated current:

120 VAC	10 Amp	Resistive load
120 VAC	7.5 Amp	Inductive load
240 VAC	7.5 Amp	Resistive load
240 VAC	5.0 Amp	Inductive load

Relay Coil rate currents:

2 pole	75 mA
3 pole	120 mA

Number of Weight Bars vs. Number of Relays Used with Internal 12V Power Supply:

Weigh Bars in System	Relays that can be turned on at the same time	
1	3	
2	3	
3	3	« Do not leave on for extened time
4	3	« Do not leave on for extened time
6	2	
8	1	
10	1	

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