



Champion Index Controller



**Quick Reference Guide
Rev D with Brake Drive**

For Models:

***Superior Champion L12 Lug Conveyor
Superior Champion L16 Lug Conveyor***

Included:

1. **Main Controller Box.**
2. **Flexible Sensor Assy. (Mounted to sense stop position-typically under the conveyor and sensing the conveyor lugs as they pass by)**

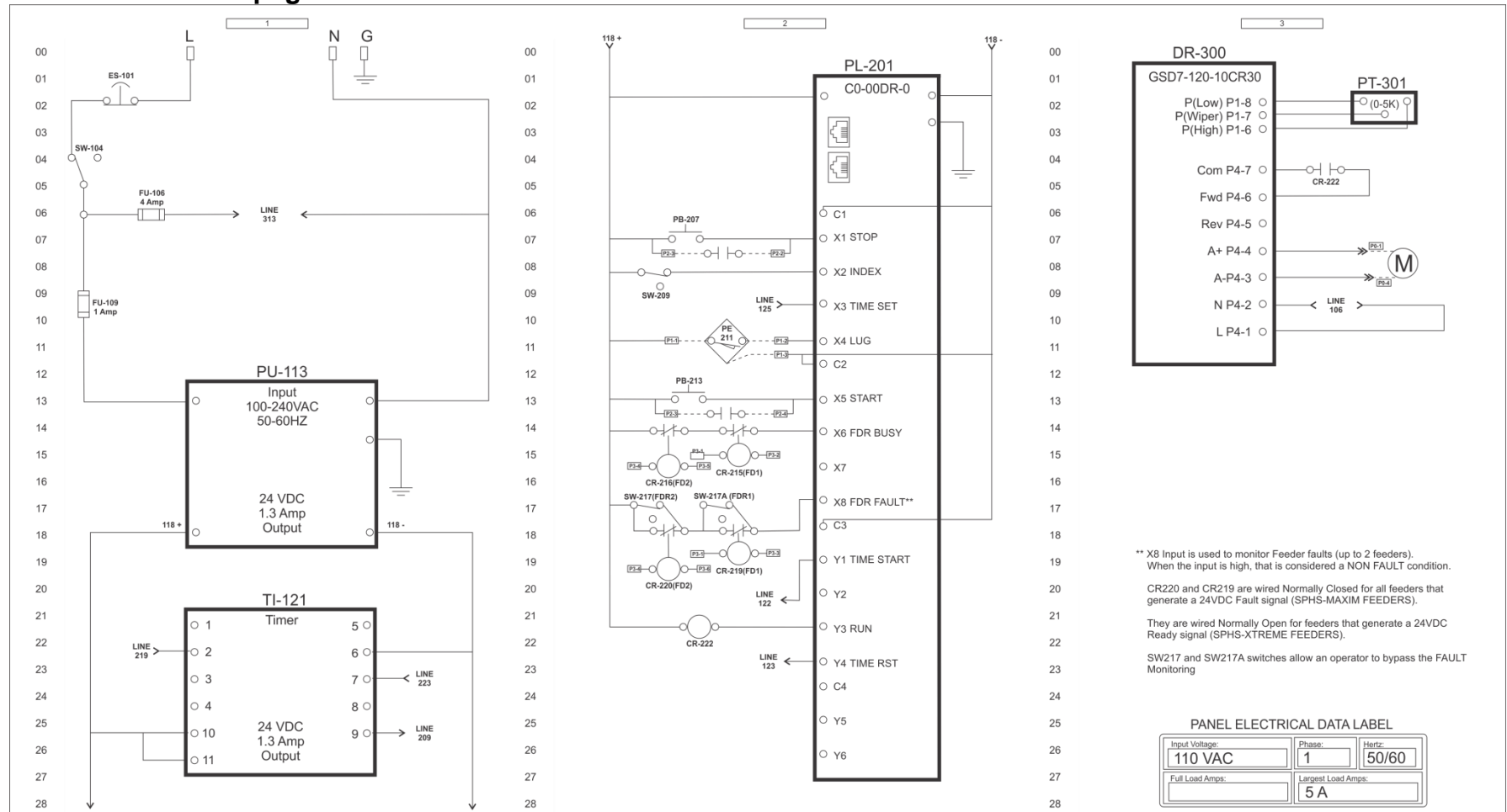
Run MODE Functions:

1. **CONT Run MODE.**
[Conveyor will run continuously upon receiving a start command from the **GREEN** start pushbutton, and will stop at a controlled stop position (Lug sensor) when the **RED** pushbutton is activated]
2. **INDEX Run MODE.**
[Conveyor will run upon receiving a start command from the **GREEN** start pushbutton until the Lug Sensor sees a lug, then the conveyor will stop and hold until the **INDEX HOLD TIMER** reaches it's value. The cycle will repeat itself until the **RED** pushbutton is activated at which the conveyor will stop at a controlled stop position]

Basic Controls and I/O:

- 1. E-STOP Button: (Cuts conveyor power immediately)**
- 2. START Button: (Starts conveyor Line)**
- 3. STOP Button: (Stops conveyor Line at a position stop)**
- 4. ON/OFF Switch: (Turns Conveyor power on)**
- 5. CONT/INDEX Switch: (Sets Run MODE as noted above)**
- 6. Index Hold Timer: (Sets the hold time between Index Cycles; Located in electrical cabinet)**
- 7. Speed Control: (Sets Conveyor Run Speed; Located in electrical cabinet)**
- 8. LUG SENSOR PLUG: (Plug connection for Flexible Sensor Assembly)**
- 9. FDR I/O PLUG: (Plug connection for Feeder – see panel schematic, page 2 for explanation)**
- 10. FDR FLT BYPASS: (Bypasses Feeder fault monitoring)**
- 11. EXTERNAL I/O: (Plug connection for Remote Conveyor control - see panel schematic, page 2 for explanation)**

Panel Schematic – page 1



** X8 Input is used to monitor Feeder faults (up to 2 feeders).
When the input is high, that is considered a NON FAULT condition.

CR220 and CR219 are wired Normally Closed for all feeders that generate a 24VDC Fault signal (SPHS-MAXIM FEEDERS).
They are wired Normally Open for feeders that generate a 24VDC Ready signal (SPHS-XTREME FEEDERS).

SW217 and SW217A switches allow an operator to bypass the FAULT Monitoring

PANEL ELECTRICAL DATA LABEL		
Input Voltage:	Phase:	Hertz:
110 VAC	1	50/60
Full Load Amps:	Largest Load Amps:	
	5 A	

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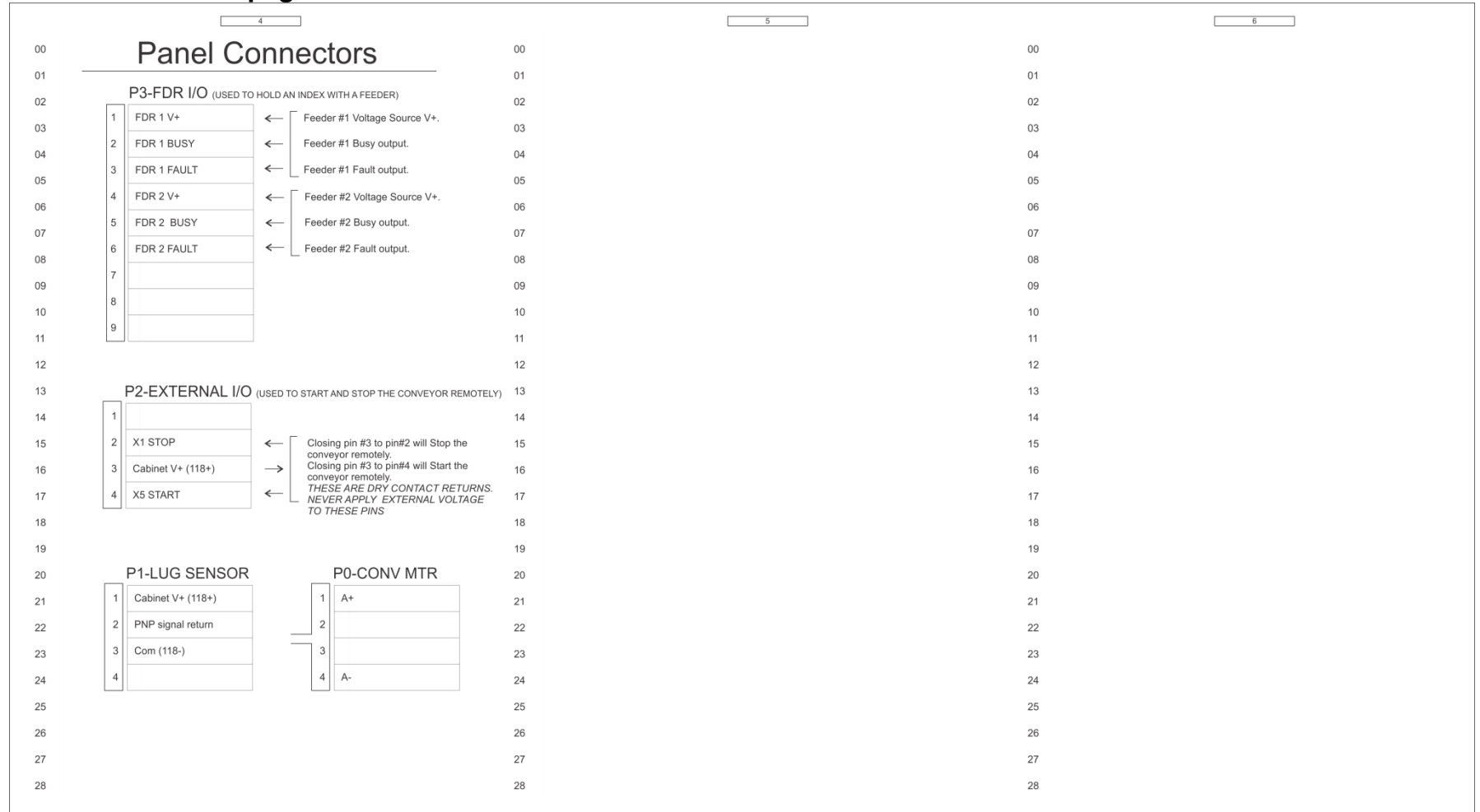
DESCRIPTION:
Index Controller

REVISION: D
DRAWN BY: JRL
DRAWN DATE: 04/20/2017

DRAWING IDENTIFICATION:
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PAGE: 1
OF
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Panel Schematic – page 2



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