



Application Bulletin: #170

Date: March 2010

Sentinel I-24 I/O board layout

The AC and DC I/O boards used in the Sentinel I-24 were redesigned, with the new design boards phasing in to replace the earlier design boards beginning in late 2008. Below are the two design layouts of the AC and DC I/O boards.

Earlier Design

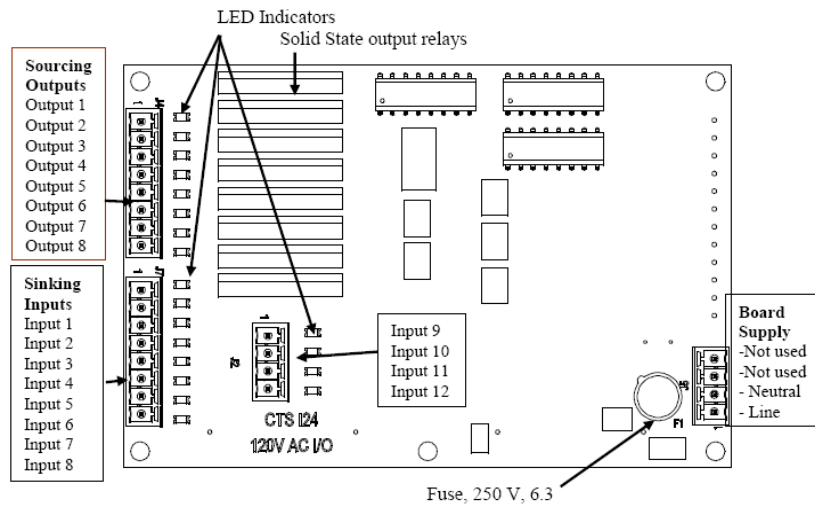


Figure 232 I/O Circuit board for 120 VAC (Green circuit board) – new design board shown in Figure 16 on page 1-17 and Figure 234 on page 12-27

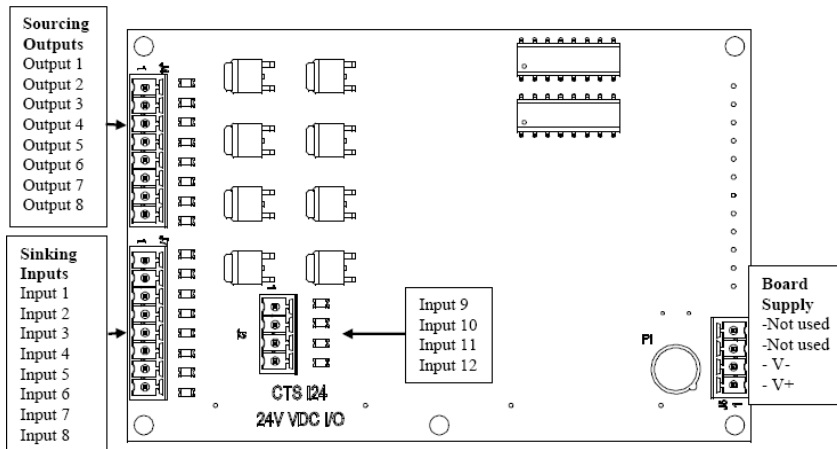


Figure 233 I/O Circuit board for 24 VDC (Blue circuit board)

Return for the outputs should be connected to the neutral or V- terminal.
The source for the inputs should be connected to the Line or V+ terminal.

Current Design

Internal cable	Terminal
Brown/Yellow	8 Output 8
Blue/Green	7 Output 7
White/Green	6 Output 6
Black/Green	5 Output 5
Brown/Red	4 Output 4
Blue/Red	3 Output 3
White/Red	2 Output 2
Black/Red	1 Output 1
Brown/Yellow	12 Input 12
Blue/Yellow	11 Input 11
White/Yellow	10 Input 10
Black/Yellow	9 Input 9
Blue/Orange	8 Input 8
Black/Orange	7 Input 7
White/Orange	6 Input 6
Brown/Orange	5 Input 5
Black/Gray	4 Input 4
Brown/Gray	3 Input 3
Blue/Gray	2 Input 2
White/Gray	1 Input 1

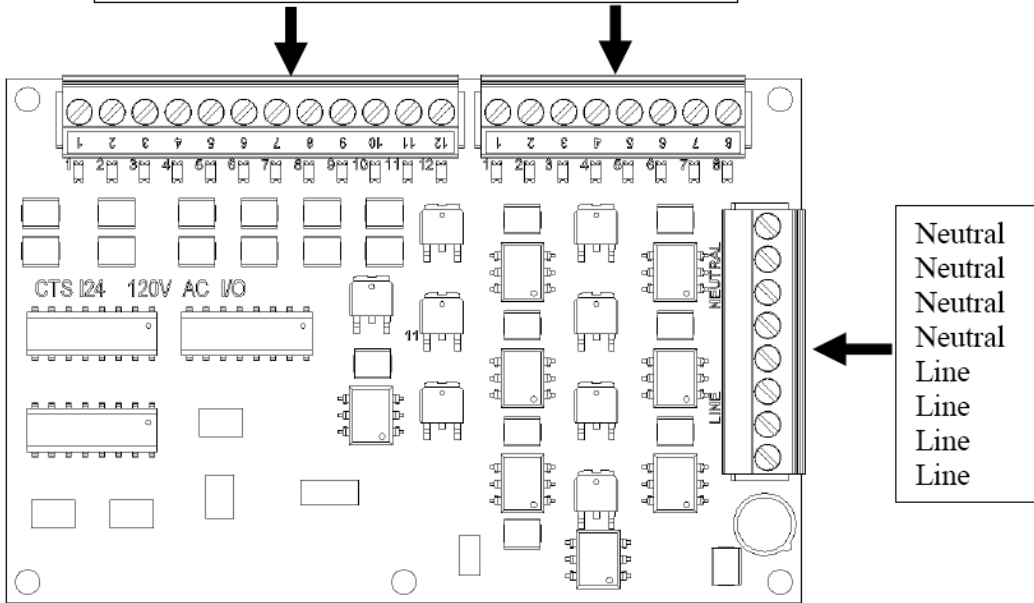


Figure 140 I/O Circuit board for 120 VAC (Green circuit board) –

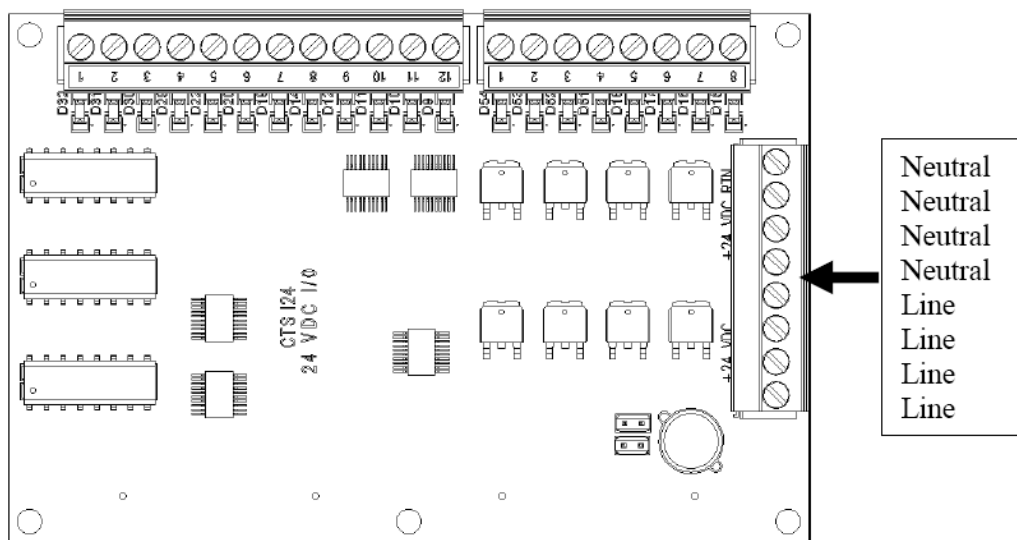


Figure 141 I/O Circuit Board for 24VDC (Blue circuit board)