

Addendum - SmartPAC PRO CAN Comms

This Addendum covers CAN bus data communication IN and OUT of the RTS as a replacement for the USB communications seen in the SmartPAC PRO User Manual (1143100, Rev D).

The following describes the difference between the former use of USB cabling between the RTS and HMI boards and the newer CAN communications cabling that in some scenarios will be a more robust solution. You will find that the 'EXT' USB port on the RTS board as well as the USB port on the HMI board are both capped with the removal of the USB connection.

Table 2-1 'Connecting HMI to RTS Boards for a Pendant-mounted Display', from the SmartPAC PRO User manual, is no longer relevant due to the elimination of the need for an extender kit, and multiple ethernet cable lengths.

The changes to wiring are shown below:

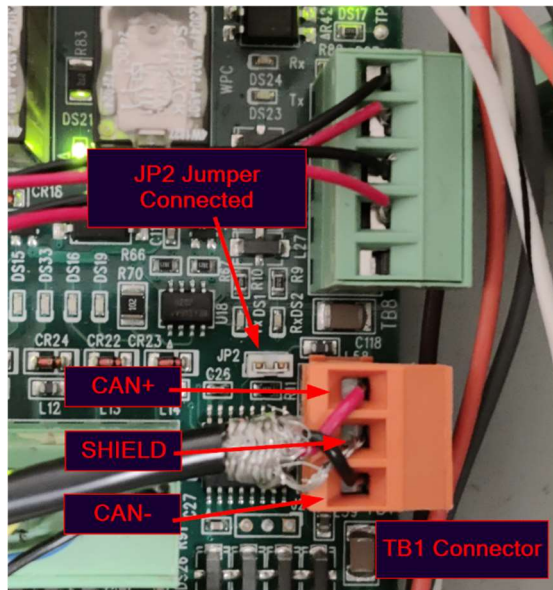


Figure 1-1. RTS Connections

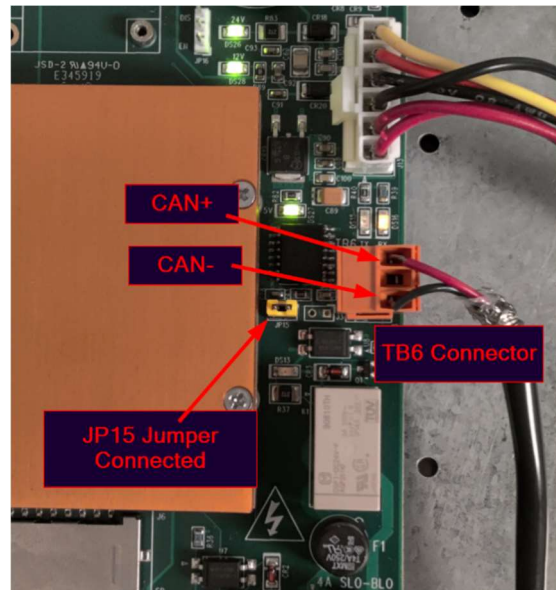


Figure 1-2. HMI Connections

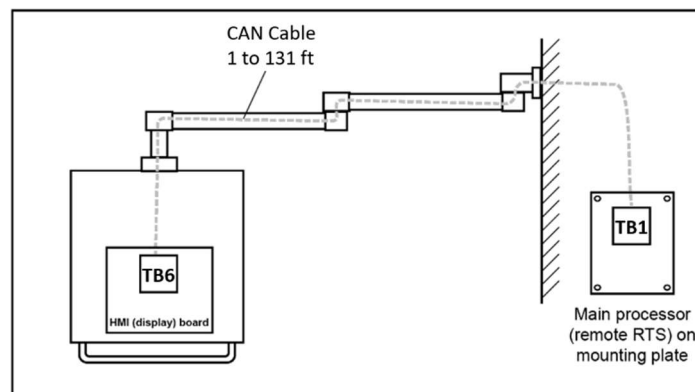


Figure 1-3. CAN Connections

Next, the Error codes related to CAN communications changes will be covered:

The first error (See Figure 2-1) happens upon startup if the CAN cable wasn't connected, or wires were loose between TB1 on the RTS board and TB6 on the HMI board. The second one (See Figure2-2) happens if the CAN cable gets disconnected or wires come off after it has been working.

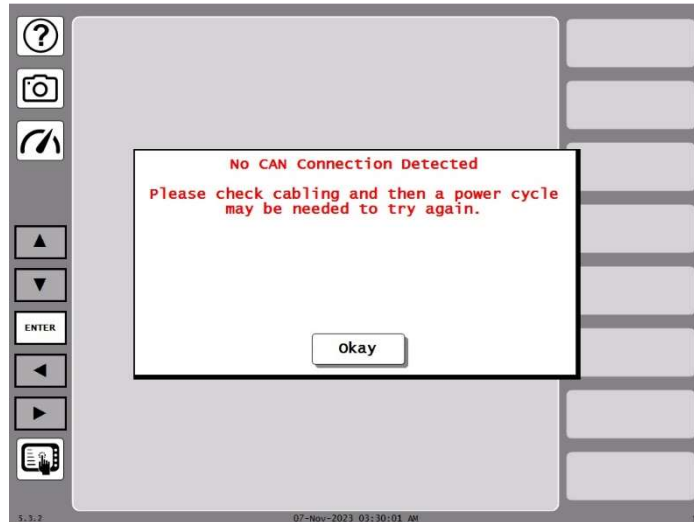


Figure 2-1. CAN Cable Not Connected at Power Up Error

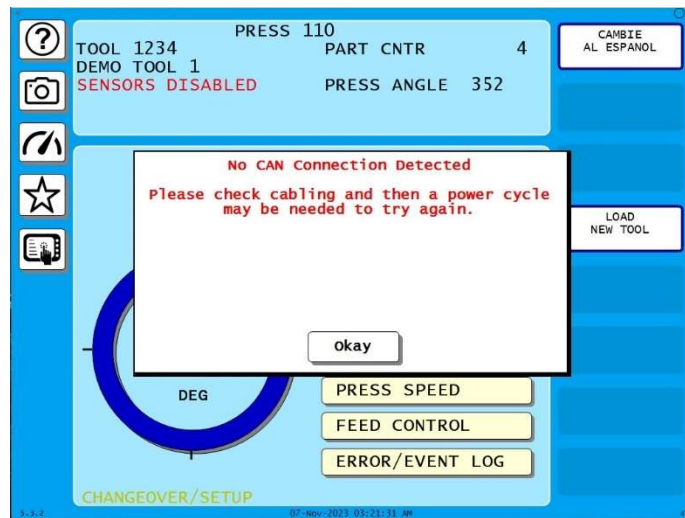
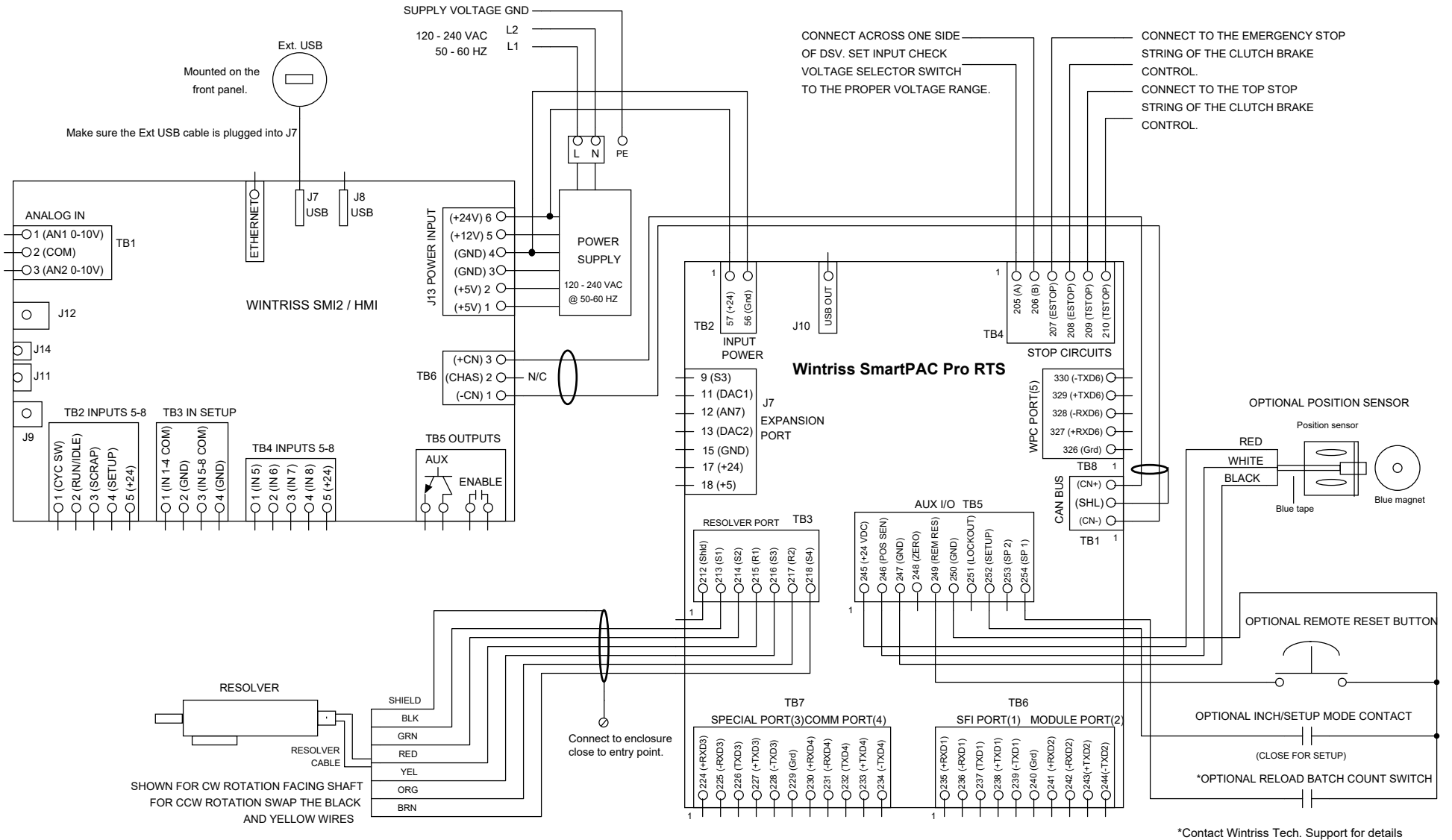


Figure 2-2. CAN Cable Disconnected Error

Lastly, the wiring diagrams related to the CAN Communications changes are as follows:

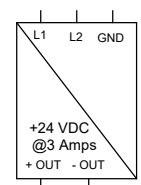
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TITLE			
120 - 240 VAC SmartPAC Pro			
Wiring configuration w/CAN bus			
DRAWN	SIZE	DRAWING NUMBER	REV
ADB/LFT	C	FIGURE 10	
DATE	10/18/23	SHEET	OF

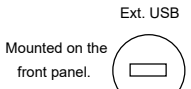
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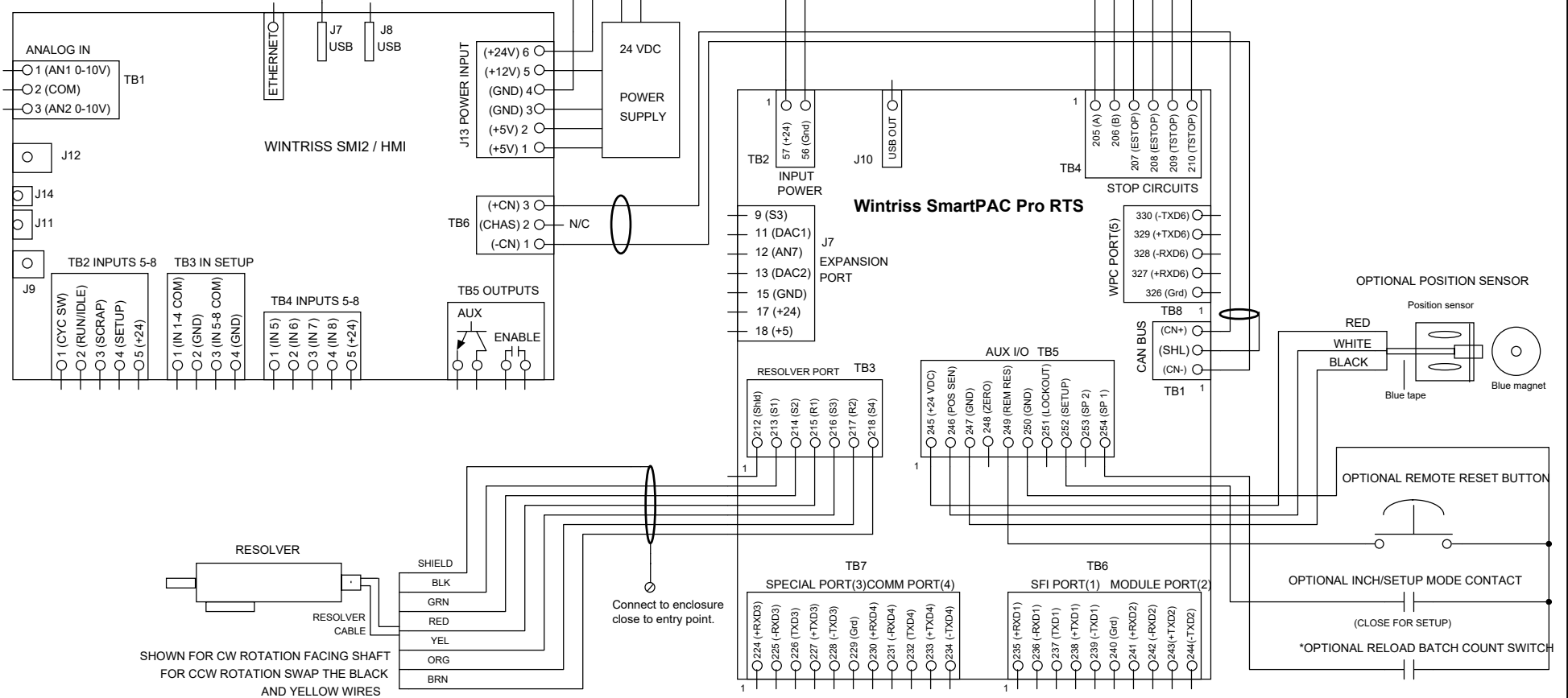
POWER SUPPLY PROVIDED BY CUSTOMER.

CONNECT ACROSS ONE SIDE OF DSV. SET INPUT CHECK VOLTAGE SELECTOR SWITCH TO THE PROPER VOLTAGE RANGE.

CONNECT TO THE EMERGENCY STOP STRING OF THE CLUTCH BRAKE CONTROL.
CONNECT TO THE TOP STOP STRING OF THE CLUTCH BRAKE CONTROL.



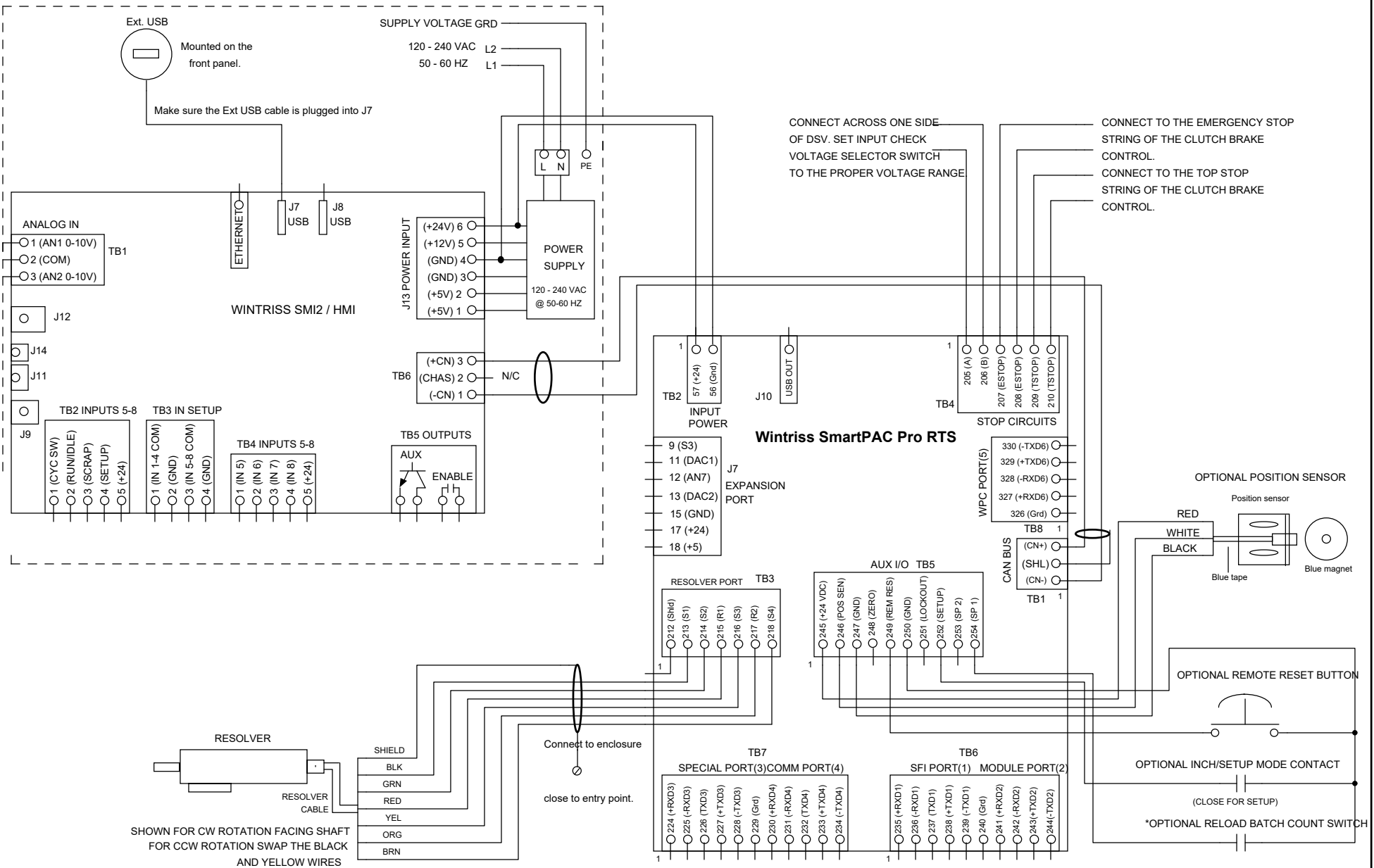
Make sure the Ext USB cable is plugged into J7



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TITLE			
+24 VDC SmartPAC Pro			
Wiring configuration with CAN bus			
DRAWN	SIZE	DRAWING NUMBER	REV
ADB/LFT	C	FIGURE 11	
DATE	10/18/23	SHEET	OF

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TITLE			
120 - 240 VAC SmartPAC Pro with CAN bus and remote RTS wiring configuration			
DRAWN	SIZE	DRAWING NUMBER	REV
ADB/LFT	C	FIGURE 12	
DATE	10/18/23	SHEET	OF