

CONNECTORS

FIELD POWER CONNECTOR

TB1 is the 7I76Es field power connector. It supplies power to the isolated field I/O section of the 7I76E. TB1 pinout is as follows:

TB1 PIN	SIGNAL	FUNCTION
1	VFIELD	FIELD POWER 8-32V (Bottom pin)
2	VFIELD	FIELD POWER 8-32V
3	VFIELD	FIELD POWER 8-32V
4	VFIELD	FIELD POWER 8-32V
5	VIN	ISOLATED I/O POWER 8-32V
6	NC	
7	NC	
8	GROUND	VIN, VFIELD, COMMON (Top pin)

Note: When W1 is in the default left hand position, VIN is connected to VFIELD, so only VFIELD need be supplied to the 7I76E to power its field IO.


CAUTION: VFIELD Must be connected directly to the DC power source with no switches, circuit breakers or relay contacts in the circuit. A fuse is acceptable but in no case should VFIELD be switched ON through a mechanical contact.

CONNECTORS

TB3 STEP/DIR, ENCODER RS-422 CONNECTOR

TB3 has a mix of signals including step/dir channel 4, an encoder interface, a RS-422 interface, and the unregulated logic supply power input. TB3 is a 24 terminal 3.5 MM pluggable terminal block with supplied removable screw terminal plugs.

TB3 CONNECTOR PINOUT

TB3 PIN	SIGNAL	TB3 PIN	SIGNAL
1	GND	13	IDX+
2	STEP4-	14	IDX-
3	STEP4+	15	GND
4	DIR4-	16	RS-422 RX+
5	DIR4+	17	RS-422 RX-
6	+5VP	18	RS-422 TX+
7	ENCA+	19	RS-422 TX-
8	ENCA-	20	+5VP
9	GND	21	UNREG LOGIC PWR+ IN
10	ENCB+	22	UNREG LOGIC PWR+ IN 
11	ENCB-	23	GND
12	+5VP	24	GND

Note: 5VP pins are PTC short circuit protected 5V output pins for field wiring.