

CONNECTIONS AT SPECTROGRAPH VIA TERMINATION BOARDS FOR EL-1399

MAIN MOTOR CABLE (Jn)

PCB: TYCO/AMP 1-1123723-7
CABLE: TYCO/AMP 1-1123722-7

PIN	SIGNAL	FUNCTION
1	MOTOR_CONN	MOTOR CABLE CONNECTED
2	PHASE C	-
3	PHASE B	MOTOR POWER
4	GND	GND
5	PHASE A	MOTOR POWER
6	nnn_SEC_LIM	STAGE SECONDARY LIMITS
7	-	-

MOTOR ENCODER CABLE (Jn)

CIRCUIT BOARD MOUNT: DB15S-HD
CABLE END: DB15P-HD

PIN	TO	SIGNAL	FUNCTION
1	J1-K	nnn_AUX_CHANNEL_B-	AUXILIARY ENCODER B-
2	J1-R	MOTOR_ENCD_CONN	MOTOR ENCODER CABLE CONNECTED
3	J1-A	HALL_C	-
4	J1-P	HALL_B	-
5	J1-N	HALL_A	-
6	J1-Y	nnn_AUX+CHANNEL_B+	AUXILIARY ENCODER B+
7	-	-	-
8	-	I-	NC
9	-	I+	NC
10	-	-	-
11	J1-J	nnn_AUX_CHANNEL_A-	AUXILIARY ENCODER A-
12	J1-X	nnn_AUX_CHANNEL_A+	AUXILIARY ENCODER A+
13	-	-	-
14	J1-M	GND	GND
15	J1-b'	+5V	+5V

LOAD ENCODER CABLE (Jn)

CIRCUIT BOARD MOUNT: DB15S
CABLE END: DB15P

PIN	TO	SIGNAL	FUNCTION
1	J1-G	GND	GND
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-
6	-	-	-
7	-	-	-
8	J1-a'	LOAD_ENCD_CONN	LOAD ENCODER CABLE CONNECTED
9	J1-H	+5V	+5V
10	J1-C	A+	MAIN ENCODER A+
11	J1-S	A-	MAIN ENCODER A-
12	J1-B	B+	MAIN ENCODER B+
13	J1-c'	B-	MAIN ENCODER B-
14	J1-Z	I+	MAIN ENCODER INDEX+
15	J1-L	I-	MAIN ENCODER INDEX-

STAGE LIMITS (Jn)

CIRCUIT BOARD MOUNT: DB9S
CABLE END: DB9P

PIN	TO	SIGNAL	FUNCTION
1	J1-T	GND	GND
2	-	-	-
3	-	-	-
4	-	-	-
5	J1-F	+5V	+5V
6	J1-D	nnn_REV_PRIMARY	STAGE REVERSE LIMIT
7	J1-L	nnn_FWD_PRIMARY	STAGE FORWARD LIMIT
8	J1-E	nnn_HOME	STAGE HOME SIGNAL
9	J1-V	STAGE_CONN	STAGE CABLE CONNECTED SIGNAL

REVISIONS

08-12-05 UPDATED PIN NUMBERS FOR BETTER LAYOUT OF TERMINATION BOARDS
08-12-05 ADDED FOURTH SHEET TO GIVE PICTORIAL VIEW OF STAGE CABLING
08-29-05 UPDATED TABLES ON THIS SHEET
02-21-06 UPDATED JI CONNECTIONS
02-15-07 ADDED EL-1399 TO PAGE TITLE AND CORRECTED ENCODER CONNECTIONS
04-22-10 REMOVED LABELS FOR HALL SENSORS AND MOTOR PHASE C
05-06-10 RENAMED VARIOUS SIGNALS FOR UNIFORMITY ON ALL SCHEMATICS

http://loel.ucolick.org/manual/APF/schematics/APF_stage_cable_sh_3.pdf

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		APF STAGE CABLES	
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