

INPUTS

Automatic Planet Finder Spectrograph Extended I/O						
TERM	LABEL	SIGNAL	BANK	FUNCTION	CONN	PIN
1	GND	GROUND PINS OF J1	-	-	-	-
2	5V	5V DC OUT FROM J1	-	-	-	-
3	GND	GROUND PINS OF J1	-	-	-	-
4	5V	5V DC OUT FROM J1	-	-	-	-
5	I/O80	5V_PWR1_ALARM	BANK 7	LOGIC SUPPLY1 ALARM	J21	47
6	I/O79	5V_PWR2_ALARM	BANK 7	LOGIC SUPPLY2 ALARM	J21	49
7	I/O78	-	BANK 7	-	-	24
8	I/O77	-	BANK 7	-	-	23
9	I/O76	HALOGEN 2 OK	BANK 7	BACKUP HALOGEN CURRENT OK	J10	22
10	I/O75	HALOGEN 1 OK	BANK 7	MAIN HALOGEN CURRENT OK	J10	21
11	I/O74	THORIUM LAMP 2 OK	BANK 7	THORIUM LAMP2 CURRENT OK	J10	20
12	I/O73	THORIUM LAMP 1 OK	BANK 7	THORIUM LAMP1 CURRENT OK	J10	19
13	OUTC73-80	OUT COMMON FOR I/O 73-80	BANK 7	-	-	-
14	I/OC73-80	I/O COMMON FOR I/O 73-80	BANK 7	ISO 5V	TERM 24	-
15	I/O72	ADC_MOTOR_CONN	BANK 6	ADC MOTOR CONNECTED	J13	20
16	I/O71	ADC_MOTOR_ENCD_CONN	BANK 6	ADC MOTOR ENC. CONNECTED	J13	2
17	I/O70	ADC_LOAD_ENCD_CONN	BANK 6	ADC LOAD ENC. CONNECTED	J13	21
18	I/O69	ADC_LIMIT_CONN	BANK 6	ADC LIMITS CONNECTED	J13	3
19	I/O68	CAM_MOTOR_CONN	BANK 6	CAM MOTOR CONNECTED	J13	22
20	I/O67	CAM_MOTOR_ENCD_CONN	BANK 6	CAM MOTOR ENC. CONNECTED	J13	4
21	I/O66	CAM_LOAD_ENCD_CONN	BANK 6	CAM LOAD ENC. CONNECTED	J13	23
22	I/O65	CAM_LIMIT_CONN	BANK 6	CAM LIMITS CONNECTED	J13	5
23	OUTC65-72	OUT COMMON FOR I/O 65-72	BANK 6	-	-	-
24	I/O65-72	I/O COMMON FOR I/O 65-72	BANK 6	ISO 5V	TERM 34	-
25	I/O64	CMR_MOTOR_CONN	BANK 5	CMR MOTOR CONNECTED	J13	6
26	I/O63	CMR_MOTOR_ENCD_CONN	BANK 5	CMR MOTOR ENC. CONNECTED	J13	25

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TERM	LABEL	SIGNAL	BANK	FUNCTION	CONN	PIN
27	I/O62	CMR_LOAD_ENCD_CONN	BANK 5	CMR LOAD ENC. CONNECTED	J13	7
28	I/O61	CMR_LIMIT_CONN	BANK 5	CMR LIMITS CONNECTED	J13	26
29	I/O60	CAL_MOTOR_CONN	BANK 5	CAL MOTOR CONNECTED	J13	8
30	I/O59	CAL_MOTOR_ENCD_CONN	BANK 5	CAL MOTOR ENC. CONNECTED	J13	27
31	I/O58	CAL_LOAD_ENCD_CONN	BANK 5	CAL LOAD ENC. CONNECTED	J13	9
32	I/O57	CAL_LIMIT_CONN	BANK 5	CAL LIMITS CONNECTED	J13	28
33	OUTC57-64	OUT COMMON FOR I/O 57-64	BANK 5	-	-	-
34	I/OC57-64	I/O COMMON FOR I/O 57-64	BANK 5	ISO 5V	TERM 44	-
35	I/O56	IOD_MOTOR_CONN	BANK 4	IOD MOTOR CONNECTED	J13	29
36	I/O55	IOD_MOTOR_ENCD_CONN	BANK 4	IOD MOTOR ENC. CONNECTED	J13	11
37	I/O54	IOD_LOAD_ENCD_CONN	BANK 4	IOD LOAD ENC. CONNECTED	J13	30
38	I/O53	IOD_LIMIT_CONN	BANK 4	IOD LIMITS CONNECTED	J13	12
39	I/O52	SLT_MOTOR_CONN	BANK 4	SLT MOTOR CONNECTED	J13	31
40	I/O51	SLT_MOTOR_ENCD_CONN	BANK 4	SLT MOTOR ENC. CONNECTED	J13	13
41	I/O50	SLT_LOAD_ENCD_CONN	BANK 4	SLT LOAD ENC. CONNECTED	J13	32
42	I/O49	SLT_LIMIT_CONN	BANK 4	SLT LIMITS CONNECTED	J13	14
43	OUTC49-56	OUT COMMON FOR I/O 49-56	BANK 4	-	-	-
44	I/OC49-56	I/O COMMON FOR I/O 49-56	BANK 4	ISO 5V	TERM 54	-
45	I/O48	DEW_MOTOR_CONN	BANK 3	DEW MOTOR CONNECTED	J13	15
46	I/O47	DEW_MOTOR_ENCD_CONN	BANK 3	DEW MOTOR ENC. CONNECTED	J13	34
47	I/O46	DEW_LOAD_ENCD_CONN	BANK 3	DEW LOAD ENC. CONNECTED	J13	16
48	I/O45	DEW_LIMIT_CONN	BANK 3	DEW LIMITS CONNECTED	J13	35
49	I/O44	48V_AC_POWER2_OK	BANK 3	48V SUPPLY2 AC POWER STATUS	J13	17
50	I/O43	48V_OUTPUT2_OK	BANK 3	48V SUPPLY2 OUTPUT STATUS	J13	36
51	I/O42	48V_FANS2_OK	BANK 3	48V SUPPLY2 FAN STATUS	J13	18
52	I/O41	48V_TEMPERATURE2_OK	BANK 3	48V SUPPLY2 OVER TEMP.	J13	37

INPUT/OUTPUT ASSIGNMENTS APF SPECTROMETER

EL-3510

REVISIONS	http://loel.ucolick.org/manual/Apf/schematics/APF_in_out_sh_2.pdf
10-14-05	ADDED ISO5V (ISOLATED 5V SUPPLY) AND ISO5V GND CONNECTIONS TO SHEETS 2 AND 3
10-17-05	ADDED CONN AND PIN COLUMNS TO TABLES
05-01-07	ADDED LOGIC SUPPLY ALARM INPUTS - BITS 80 AND 79
05-02-07	ADDED SECOND 48V SERVO SUPPLY STATUS INPUT BITS 41 - 44
05-21-07	CORRECTED DETAILS: REMOVED FUNCTION COMMENT FOR TERM 23 AND CORRECTED FUNCTION FOR TERM 45 TO REFER TO MOTOR ENCODER
04-29-10	ADDED ACTIVE LOW STATES TO THORIUM & HALOEN LAMPS
02-22-11	REASSIGNED QUARTZ LAMP INPUT BITS. IN NEW VERSION THERE IS ONLY ONE LAMP + SPARE

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		DIGITAL INPUTS SIGNAL ASSIGNMENTS APF SPECTROMETER	
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