

Automatic Planet Finder Spectrograph Amplifier I/O Connectors

Amplifier A (AUX I/O J3)

PIN	LABEL	SIGNAL	FUNCTION
1	PWM/MCMD Z	-	-
2	Output 6	AMUX2B	2st ANALOG MUX ADDR: 2
3	Output 8	-	(UNASSIGNED)
4	Output 5	AMUX1B	2st ANALOG MUX ADDR: 1
5	Output 2	AMUX1A	1st ANALOG MUX ADDR: 1
6	Abort*	-	-
7	Input 6	SLT_SEC_LIM	SLIT DECKER STAGE SECONDARY LIMIT
8	Latch Z/Input 3	CMR_SEC_LIM	CALIBRATION MIRROR STAGE SECONDARY LIMIT
9	SIGN/AEN Y	-	-
10	Encoder compare	-	-
11	Reverse limit X	ADC_REV_PRIMARY	-
12	Reverse limit Y	CAM_REV_PRIMARY	-
13	Reverse limit Z	CMR_REV_PRIMARY	-
14	Reverse limit W	CAL_REV_PRIMARY	-
15	Forward limit W	CAL_FWD_PRIMARY	-
16	SIGN/AEN W	-	-
17	SIGN/AEN Z	-	-
18	Output 7	-	(UNASSIGNED)
19	Output 4	AMUX0B	2st ANALOG MUX ADDR: 0
20	Output 1	AMUX0A	1st ANALOG MUX ADDR: 0
21	Output 3	AMUX2A	1st ANALOG MUX ADDR: 2
22	Input 7	DEW_SEC_LIM	DEWAR FOCUS STAGE SECONDARY LIMIT
23	Latch W/Input 4	CAL_SEC_LIM	CALIBRATION SOURCE STAGE SECONDARY LIMIT
24	Latch X/Input 1	ADC_SEC_LIM	ADC STAGE SECONDARY LIMIT
25	PWM/MCMD X	-	-
26	Home X	ADC_HOME	-
27	Home Y	CAM_HOME	-
28	Home Z	CMR_HOME	-
29	Home W	CAL_HOME	-
30	Error Output*/INCOM	-	-
31	PWM/MCMD W	-	-
32	5V	-	-
33	5V	-	-
34	Ground	-	-
35	Ground	-	-
36	Input 8	(RESERVED)	(UNASSIGNED STAGE SECONDARY LIMIT)
37	Input 5	IOD_SEC_LIM	IODINE CELL STAGE SECONDARY LIMIT
38	Latch Y/Input 2	CAM_SEC_LIM	GUIDE CAMERA FOCUS STAGE SECONDARY LIMIT
39	PWM/MCMD Y	-	-
40	SIGN/AEN X	-	-
41	Forward limit X	ADC_FWD_PRIMARY	-
42	Forward limit Y	CAM_FWD_PRIMARY	-
43	Forward limit Z	CMR_FWD_PRIMARY	-
44	Reset*/LSCOM	-	-

Amplifier B (AUX I/O J3)

PIN	LABEL	SIGNAL	FUNCTION
1	PWM/MCMD G	-	-
2	Output 14	-	(RESERVED)
3	Output 16	SET_48V_OFF	48V SUPPLY #1, INHIBIT 48V SUPPLY'S OUTPUT
4	Output 13	-	(RESERVED)
5	Output 10	CUBE_SHUTTER_OPEN	CORNER CUBE SHUTTER OPEN/CLOSE
6	Abort*	-	-
7	Input 14	48V_OUTPUT_OK	48V SUPPLY OUTPUT IS FUNCTIONING OK
8	Latch G/Input 11	-	(UNASSIGNED)
9	SIGN/AEN F	-	-
10	Encoder compare	-	-
11	Reverse limit E	-	-
12	Reverse limit F	-	-
13	Reverse limit G	-	-
14	Reverse limit H	-	-
15	Forward limit H	-	-
16	SIGN/AEN H	-	-
17	SIGN/AEN G	-	-
18	Output 15	SET_48V_OFF	48V SUPPLY #2, INHIBIT 48V SUPPLY'S OUTPUT
19	Output 12	-	(UNASSIGNED)
20	Output 9	SCI_SHUTTER_OPEN	SCIENCE SHUTTER OPEN/CLOSE
21	Output 11	SCI_SHUT_SENSOR	SCIENCE SHUTTER LED LIGHT SOURCE ON
22	Input 15	48V_FANS_OK	FANS ARE RUNNING OK IN POWER SUPPLY
23	Latch H/Input 12	-	(UNASSIGNED)
24	Latch E/Input 9	SHUTTER_1_IS_OPEN	1st SHUTTER OPEN FEEDBACK SIGNAL
25	PWM/MCMD E	-	-
26	Home E	-	-
27	Home F	-	-
28	Home G	-	-
29	Home H	-	-
30	Error Output*/INCOM	-	-
31	PWM/MCMD H	-	-
32	5V	-	-
33	5V	-	-
34	Ground	-	-
35	Ground	-	-
36	Input 16	48V_TEMPERATURE_OK	48V SUPPLY OVER TEMPERATURE IS OK
37	Input 13	48V_AC_POWER_OK	AC INTO POWER SUPPLY IS OK
38	Latch F/Input 10	SHUTTER_2_IS_OPEN	2nd SHUTTER OPEN FEEDBACK SIGNAL
39	PWM/MCMD F	-	-
40	SIGN/AEN E	-	-
41	Forward limit E	-	-
42	Forward limit F	-	-
43	Forward limit G	-	-
44	Reset*/LSCOM	-	-

http://loel.ucolick.org/manual/APF/schematics/APF_galil_connector_wiring_sh_1.sch.pdf

REVISIONS

04-27-07 ADDED SERVO SUPPLY (+48V) STATUS AND CONTROL SIGNALS - OUTPUT BIT 13, INPUT BITS 13, 14, 15, 16
 04-15-08 ADDED SCIENCE SHUTTER # 1 LED LIGHT SOURCE SIGNAL TO OUTPUT 11. REASSIGNED SHUTTER # 2 LABELS TO MATCH INTERCONNECTIONS SCHEMATIC.
 04-23-08 RENAMED SHUTTERS
 10-14-08 UPDATED OUTPUT 15 & 16, 48V SUPPLY TO INHIBIT 48V SUPPLY'S OUTPUT

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		APF SPECTROGRAPH GALIL CONNECTOR WIRING	
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