

PIN	LABEL	SIGNAL	TO	FUNCTION	PIN	LABEL	SIGNAL	TO	FUNCTION	PIN	LABEL	SIGNAL	TO	FUNCTION
1	GND	GND	TBD-1	GND TO GND TERMINALS	36	INP6	INP6			71	HOMEZ	HOMEC	J13-19	HOME GRATING TILT #3
2	ACMDX	ACMD A			37	INP5	INP5			72	FLSW	FLSD	J14-15	FWD LIMIT } GRATING SLIDE
3	AENX	AEN A			38	INP4/LW	INP4/LD	J14-5	GRATING SLIDE	73	RLSW	RLSD	J14-16	REV LIMIT } GRATING SLIDE
4	PULSX	PULS A			39	INP3/LZ	INP3/LC	J13-5	GRATING TILT #4	74	HOMEW	HOMED	J14-19	HOME } GRATING SLIDE
5	DIRX	DIR A			40	INP2/LY	INP2/LB	J12-5	GRATING TILT #3	75	GND	GND	J46-14	GND TO GND TERMINALS
6	ACMDY	ACMD B			41	INP1/LX	INP1/LA	J11-5	SPARE	76	ABORT	ABORT		
7	AENY	AEN B			42	INCOM	INCOM		( JUMPERED TO +5V ON BOARD )	77	XA+	AA+	J11-7	A+ } ENCODER
8	PULSY	PULS B			43	GND	GND	J46-8	GND TO GND TERMINALS	78	XA-	AA-	J11-8	A- } ENCODER
9	DIRY	DIR B			44	WAB-	DAB-	J24-4	B- } STAGE	79	XB+	AB+	J11-9	B+ } SPARE
10	ACMDZ	ACMD C			45	WAB+	DAB+	J24-5	B+ } STAGE	80	XB-	AB-	J11-10	B- } SPARE
11	AENZ	AEN C			46	WAA-	DAA-	J24-6	A- } ENCODER	81	XI+	AI+ (AUX)	J31-3	I+ } STAGE ENCODER
12	PULSZ	PULS C			47	WAA+	DAA+	J24-7	A+ } ENCODER	82	XI-	AI- (AUX)	J31-2	I- } STAGE ENCODER
13	DIRZ	DIR C			48	ZAB-	CAB-	J23-4	B- } STAGE	83	YA+	BA+	J12-7	A+ } ENCODER
14	ACMDW	ACMD D			49	ZAB+	CAB+	J23-5	B+ } STAGE	84	YA-	BA-	J12-8	A- } ENCODER
15	AENW	AEN D			50	ZAA-	CAA-	J23-6	A- } ENCODER	85	YB+	BB+	J12-9	B+ } GRATING TILT #3
16	PULSW	PULS D			51	ZAA+	CAA+	J23-7	A+ } ENCODER	86	YB-	BB-	J12-10	B- } GRATING TILT #3
17	DIRW	DIR D			52	YAB-	BAB-	J22-4	B- } STAGE	87	YI+	BI+ (AUX)	J32-3	I+ } STAGE ENCODER
18	AN1	AN1	AIIC P1-9	ANALOG IN 1	53	YAB+	BAB+	J22-5	B+ } STAGE	88	YI-	BI- (AUX)	J32-2	I- } STAGE ENCODER
19	AN2	AN2	AIIC P1-11	ANALOG IN 2	54	YAA-	BAA-	J22-6	A- } ENCODER	89	ZA+	CA+	J13-7	A+ } ENCODER
20	AN3	AN3	AIIC P1-13	ANALOG IN 3	55	YAA+	BAA+	J22-7	A+ } ENCODER	90	ZA-	CA-	J13-8	A- } ENCODER
21	AN4	AN4	-	ANALOG IN 4	56	XAB-	AAB-	J21-4	B- } STAGE	91	ZB+	CB+	J13-9	B+ } GRATING TILT #4
22	AN5	AN5	-	ANALOG IN 5	57	XAB+	AAB+	J21-5	B+ } STAGE	92	ZB-	CB-	J13-10	B- } GRATING TILT #4
23	AN6	AN6	-	ANALOG IN 6	58	XAA-	AAA-	J21-6	A- } ENCODER	93	ZI+	CI+ (AUX)	J33-3	I+ } STAGE ENCODER
24	AN7	AN7	-	ANALOG IN 7	59	XAA+	AAA+	J21-7	A+ } ENCODER	94	ZI-	CI- (AUX)	J33-2	I- } STAGE ENCODER
25	GND	GND	AIIC P1-5	GND TO TEMPERATURE BD	60	GND	GND	J46-11	GND TO GND TERMINALS	95	WA+	DA+	J14-7	A+ } ENCODER
26	OUT1	OUT1	J11-21	SPARE	61	5V	5V		( JUMPERED TO INCOM AND LSCOM ON BOARD )	96	WA-	DA-	J14-8	A- } ENCODER
27	OUT2	OUT2	J12-21	GRATING TILT #3	62	LSCOM	LSCOM		( JUMPERED TO +5V ON BOARD )	97	WB+	DB+	J14-9	B+ } GRATING SLIDE
28	OUT3	OUT3	J13-21	GRATING TILT #4	63	FLSX	FLSA	J11-15	FWD LIMIT	98	WB-	DB-	J14-10	B- } GRATING SLIDE
29	OUT4	OUT4	J14-21	GRATING SLIDE	64	RLSX	RLSA	J11-16	REV LIMIT	99	WI+	DI+ (AUX)		
30	OUT5	OUT5	AIIC P1-6	ANALOG CONTROL 0	65	HOMEX	HOMEA	J11-19	HOME	100	WI-	DI- (AUX)		
31	OUT6	OUT6	AIIC P1-4	ANALOG CONTROL 1	66	FLSY	FLSB	J12-15	FWD LIMIT	101	+12V	+12V		
32	OUT7	OUT7	AIIC P1-2	ANALOG CONTROL 2	67	RLSY	RLSB	J12-16	REV LIMIT	102	-12V	-12V		
33	OUT8	OUT8	-	-	68	HOMEY	HOMEB	J12-19	HOME	103	5V	5V		
34	INP8	INP8	-	-	69	FLSZ	FLSC	J13-15	FWD LIMIT	104	GND	GND		GND TO GND TERMINALS
35	INP7	INP7	-	-	70	RLSZ	RLSC	J13-16	REV LIMIT					

- NOTE: 1. THOUGH NOTED AS X, Y, Z, AND W-AXIS WE HAVE DESIGNATED THESE AS A, B, C, AND D-AXIS  
2. TWO-LOOP ENCODING USED ON EACH OF THE GRATING TILT STAGES

ALSO SEE EL-3022, 3058, 3059, 3062, 3063, 3064, 3065, 3066

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		SIGNAL ASSIGNMENTS	
		AMPLIFIER TERMINAL BOARDS, CNTRL 2, AMP A DEIMOS SPECTROGRAPH	
REVISION		DES'N BY: B. Alcott	ORIGIN DATE: 04-27-95
06-19-97 ADDED ANALOG I/O 11-10-97 CORRECTED ANALOG INPUT CONNECTIONS 06-30-00 ADDED NOTES ABOUT AXIS DESIGNATIONS 06-30-00 CHANGED FUNCTION DESIGNATIONS FROM X, Y, Z, W TO A, B, C, D 08-30-01 CHANGED TILT #1 LABELS TO TILT #5 02-26-02 REMOVED REFERENCES TO TILT #5		DRAWN BY:	MODIFY DATE: 02-26-02
		PATH: DEIMOS\SIGNALS9	REV. A
		DWG. NO.	NUM. 1 OF 1
		EL-3028	