

MAIN (J2)

PIN	FUNCTION	ASSIGNMENT	PIN	FUNCTION	ASSIGNMENT
1	GND		31	MOT CMD D	} GRATING SLIDE SIGNALS TO SERVO AMPS
2	+5V		32	AMP EN D	
3	ERROR		33	A+ A	} SPARE
4	RESET		34	A- A	
5	SWITCH COM.		35	B+ A	
6	FWD LIM A		36	B- A	
7	REV LIM A	} SPARE	37	I+ A (AUX)	} SECONDARY ENCODER
8	HOME A				
9	FWD LIM B	} GRATING TILT #3	38	I- A (AUX)	} ENCODERS
10	REV LIM B				
11	HOME B	} GRATING TILT #4	39	A+ B	} GRATING TILT #3
12	FWD LIM C				
13	REV LIM C	} GRATING TILT #4	40	A- B	} GRATING TILT #3
14	HOME C				
15	FWD LIM D	} GRATING SLIDE	41	B+ B	} SECONDARY ENCODER
16	REV LIM D				
17	HOME D	} GRATING SLIDE	42	B- B	} SECONDARY ENCODER
18	OUTPUT 1				
19	INPUT COM.	} GRATING TILT #4	43	I+ B (AUX)	} GRATING TILT #4
20	INPUT 1				
21	INPUT 2	} GRATING SLIDE	44	I- B (AUX)	} SECONDARY ENCODER
22	INPUT 3				
23	INPUT 4	} GRATING SLIDE	45	A+ C	} GRATING TILT #4
24	ABORT				
25	MOT CMD A	} SPARE	46	A- C	} SECONDARY ENCODER
26	AMP EN A				
27	MOT CMD B	} GRATING TILT #3	47	B+ C	} GRATING TILT #4
28	AMP EN B				
29	MOT CMD C	} GRATING TILT #4	48	B- C	} SECONDARY ENCODER
30	AMP EN C				
		} SIGNALS TO SERVO AMPS	49	I+ C (AUX)	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	50	I- C (AUX)	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	51	A+ D	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	52	A- D	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	53	B+ D	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	54	B- D	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	55	I+ D (AUX)	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	56	I- D (AUX)	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	57	+12V	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	58	-12V	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	59	+5V	} GRATING SLIDE
		} SIGNALS TO SERVO AMPS	60	GND	} GRATING SLIDE

- 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

GENERAL I/O (J5)

PIN	FUNCTION	ASSIGNMENT
1	ANALOG 1	ANALOG IN 1
2	ANALOG 2	ANALOG IN 2
3	ANALOG 3	ANALOG IN 3
4	ANALOG 4	-
5	ANALOG 5	
6	ANALOG 6	
7	ANALOG 7	
8	GND	
9	+5V	
10	OUTPUT 1	SPARE
11	OUTPUT 2	GRATING TILT #3
12	OUTPUT 3	GRATING TILT #4
13	OUTPUT 4	GRATING SLIDE
14	OUTPUT 5	ANALOG CONTROL 0
15	OUTPUT 6	ANALOG CONTROL 1
16	OUTPUT 7	ANALOG CONTROL 2
17	OUTPUT 8	
18	INPUT 8	
19	INPUT 7	
20	INPUT 6	
21	INPUT 5	
22	INPUT 4	GRATING SLIDE
23	INPUT 3	GRATING TILT #4
24	INPUT 2	GRATING TILT #3
25	INPUT 1	SPARE
26	INPUT COM.	

AUXILIARY ENCODER (J3)

PIN	FUNCTION	ASSIGNMENT
1	SAMPLE CLK	
2	RESERVED	
3	B- D	} GRATING TILT #4
4	B+ D	
5	A- D	} GRATING TILT #4
6	A+ D	
7	B- C	} GRATING TILT #3
8	B+ C	
9	A- C	} GRATING TILT #3
10	A+ C	
11	B- B	} GRATING TILT #3
12	B+ B	
13	A- B	} GRATING TILT #3
14	A+ B	
15	B- A	} SPARE
16	B+ A	
17	A- A	} SPARE
18	A+ A	
19	+5V	
20	GND	

ALSO SEE EL-3028

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		SIGNAL ASSIGNMENTS	
		FIRST BANK OF CONNECTORS, CONTROLLER #2 DEIMOS SPECTROGRAPH	
REVISION		DES'N BY: T. Ricketts	ORIGIN DATE: 04-05-95
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 LABELS FROM GRATING TILT 1 TO TILT 5 AND ADDED SECONDARY ENCODER LABELS FOR GRATING TILT STAGES 02-26-02 CHANGED TILT #5 REFERENCES TO 'SPARE'		DRAWN BY:	MODIFY DATE: 02-26-02
		PATH: DEIMOS\SIGNALS3	REV. A
		DWG. NO.	NUM. 1 OF 1
		EL-3022	