

KAST EXTENDED I/O

CONTROLLER #1

KAST Spectrograph Extended I/O					
BIT	I/O	LABEL	PIN	SIGNAL	FUNCTION
17	O	OUTPUT 17	16	FIDUCIAL ENABLE(1)	WAVE PLATE FIDUCIAL ENABLE
18	O	OUTPUT 18	1	FIDUCIAL ENABLE(2)	GRISM SLIDE FIDUCIAL ENABLE
19	O	OUTPUT 19	31	FIDUCIAL ENABLE(3)	BLUE FILTER TRAY FIDUCIAL ENABLE
20	O	OUTPUT 20	17	FIDUCIAL ENABLE(4)	RED FILTER TURRET FIDUCIAL ENABLE
21	O	OUTPUT 21	2	FIDUCIAL ENABLE(5)	(UNASSIGNED)
22	O	OUTPUT 22	32	FIDUCIAL ENABLE(6)	BLUE COLLIMATOR FOCUS FIDUCIAL ENABLE
23	O	OUTPUT 23	18	FIDUCIAL ENABLE(7)	RED COLLIMATOR FOCUS FIDUCIAL ENABLE
24	O	OUTPUT 24	3	FIDUCIAL ENABLE(8)	USER FILTER/POLARIMETER FIDUCIAL ENABLE
25	X	BIT 25	19	DEADMAN_TIMEOUT	SOFTWARE DEADMAN SWITCH – NO CONNECTION!!
26	X	BIT 26	4	–	–
27	X	BIT 27	34	–	–
28	X	BIT 28	20	–	–
29	X	BIT 29	5	–	–
30	X	BIT 30	35	–	–
31	X	BIT 31	21	–	–
32	X	BIT 32	6	–	–
33	X	BIT 33	7	–	–
34	X	BIT 34	37	–	–
35	X	BIT 35	23	–	–
36	X	BIT 36	8	–	–
37	X	BIT 37	24	–	–
38	X	BIT 38	9	–	–
39	X	BIT 39	40	–	–
40	X	BIT 40	26	–	–
41	X	BIT 41	11	–	–
42	X	BIT 42	41	–	–
43	X	BIT 43	27	–	–
44	X	BIT 44	12	–	–
45	X	BIT 45	42	–	–
46	X	BIT 46	28	–	–
47	X	BIT 47	13	–	–
48	X	BIT 48	29	–	–

CONTROLLER #2

KAST Spectrograph Extended I/O					
BIT	I/O	LABEL	PIN	SIGNAL	FUNCTION
17	O	OUTPUT 17	16	FIDUCIAL ENABLE(9)	LOWER FILTER FIDUCIAL ENABLE
18	O	OUTPUT 18	1	FIDUCIAL ENABLE(10)	UPPER FILTER FIDUCIAL ENABLE
19	O	OUTPUT 19	31	FIDUCIAL ENABLE(11)	SLIT FIDUCIAL ENABLE
20	O	OUTPUT 20	17	FIDUCIAL ENABLE(12)	DECKER FIDUCIAL ENABLE
21	O	OUTPUT 21	2	FIDUCIAL ENABLE(13)	GRATING SELECT FIDUCIAL ENABLE
22	O	OUTPUT 22	32	FIDUCIAL ENABLE(14)	GRATING TILT FIDUCIAL ENABLE
23	O	OUTPUT 23	18	FIDUCIAL ENABLE(15)	(UNASSIGNED)
24	O	OUTPUT 24	3	FIDUCIAL ENABLE(16)	(UNASSIGNED)
25	X	BIT 25	19	DEADMAN_TIMEOUT	SOFTWARE DEADMAN SWITCH – NO CONNECTION!!
26	X	BIT 26	4	–	–
27	X	BIT 27	34	–	–
28	X	BIT 28	20	–	–
29	X	BIT 29	5	–	–
30	X	BIT 30	35	–	–
31	X	BIT 31	21	–	–
32	X	BIT 32	6	–	–
33	X	BIT 33	7	–	–
34	X	BIT 34	37	–	–
35	X	BIT 35	23	–	–
36	X	BIT 36	8	–	–
37	X	BIT 37	24	–	–
38	X	BIT 38	9	–	–
39	X	BIT 39	40	–	–
40	X	BIT 40	26	–	–
41	X	BIT 41	11	–	–
42	X	BIT 42	41	–	–
43	X	BIT 43	27	–	–
44	X	BIT 44	12	–	–
45	X	BIT 45	42	–	–
46	X	BIT 46	28	–	–
47	X	BIT 47	13	–	–
48	X	BIT 48	29	–	–

REVISIONS

http://loel.ucolick.org/manual/KAST/schematics/KAST_Grating_Select_sh_2.pdf

05-01-08 CHANGE FIDUCIAL ENABLE BIT ASSIGNMENTS FOR GRATING SELECT AND GRATING TILT STAGES
 02-13-09 ADDED SOFTWARE DEADMAN SWITCH AT BIT 25 ON EACH CONTROLLER

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		INPUT/OUTPUT SIGNAL ASSIGNMENTS KAST SPECTROGRAPH	
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