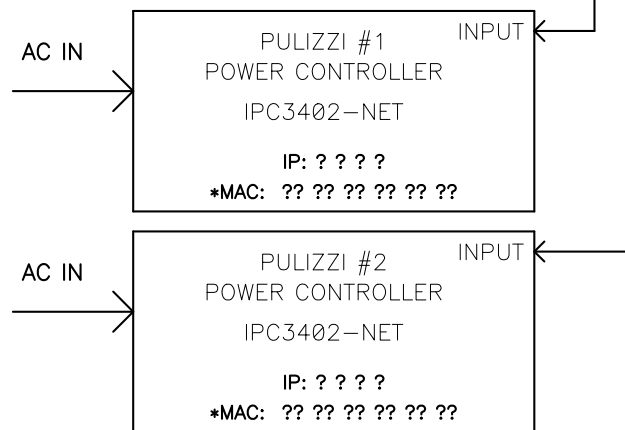
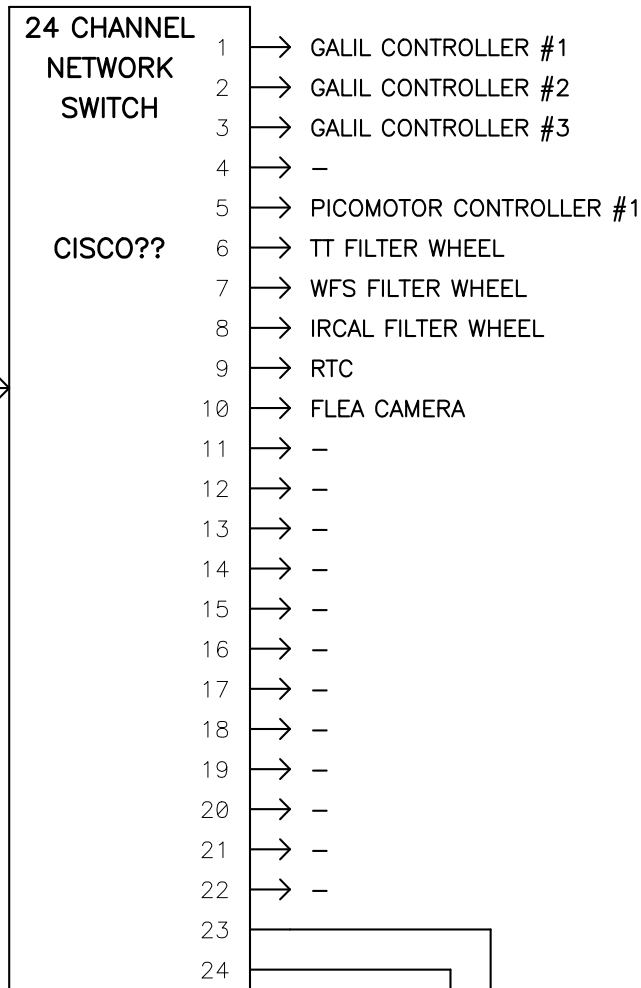


THINNET ETHERNET
FROM INSTR. COMPUTER



GALIL CONTROLLER #1

			KD	KP	KI	IL	
AMP 1: AMP43140 AMP 2: AMP-43040	GALIL DMC-4080 SERVOMOTOR CONTROLLER #1	1A FOLD MIRROR1 - TIP	xx	xx	xx	xx	EL-3812
		1B FOLD MIRROR1 - TILT	xx	xx	xx	xx	EL-3812
		1C WAVEPLATE INSERT	xx	xx	xx	xx	EL-3818
	IP ADDRESS 192.168.2.210	1D WAVEPLATE ROTATION	xx	xx	xx	xx	EL-3818
		1E TTS (TCAMX) BRUSHLESS	80	10	01	xx	EL-3815
		1F TTS (TTCAMY) BRUSHLESS	80	10	01	xx	EL-3815
		1G WFS (LENSLET) BRUSHLESS	80	10	01	xx	EL-3819
	SEE SHEET 2	1H WFS FIELD STOP APERTURE	xx	xx	xx	xx	EL-3819

+/-12V BUS

24V BUS
BRUSHLESS/
BRUSHED

P/N: DMC-4080(MO,ISCNTL)-C012(5V)-I200-I200-D3140-D3540

THIS CONTROLLER HANDLES BRUSHLESS MOTORS

GALIL CONTROLLER #2

			KD	KP	KI	IL	
AMP 1: AMP43140 AMP 2: AMP-43040	GALIL DMC-4080 SERVOMOTOR CONTROLLER #2	2A WFS-FS2-RY (STEER2ry)	1000	80	03	xx	EL-3822
		2B WFS-FS2-RX (STEER2rx)	1000	80	03	xx	EL-3822
		2C WFS-FS1-RX (STEER1rx)	1000	80	03	xx	EL-3823
		2D WFS-FS1-RY (STEER1ry)	1000	80	03	xx	EL-3823
	IP ADDRESS 192.168.2.211	2E TT DICHROIC	xx	xx	xx	xx	EL-3816
		2F CALIBRATION Y	xx	xx	xx	xx	-
	SEE SHEET 3	2G WFS DICHROIC	xx	xx	xx	xx	EL-3820
		2H WFS FOCUS (wfsfocus)	780	190	18	9	EL-3819

+/-12V BUS

24V BUS

P/N: DMC-4080(MO,ISCNTL)-C012(5V)-I200-I200-D3140-D3040

GALIL CONTROLLER #3

			KD	KP	KI	IL	
AMP 1: AMP43140 AMP 2: AMP-43040	GALIL DMC-4080 SERVOMOTOR CONTROLLER #3	3A CALIBRATION X (THOR)	xx	xx	xx	xx	EL-38xx
		3B	xx	xx	xx	xx	EL-38xx
		3C	xx	xx	xx	xx	EL-38xx
		3D -	xx	xx	xx	xx	EL-38xx
	IP ADDRESS 192.168.2.212	3E DEWAR APERTURE	xx	xx	xx	xx	EL-38
		3F DEWAR FILTER WHEEL # 1	xx	xx	xx	xx	EL-38
	SEE SHEET 4	3G DEWAR FILTER WHEEL #2	xx	xx	xx	xx	EL-38
		3H -	xx	xx	xx	xx	EL-38XX

+/-12V BUS

24V BUS

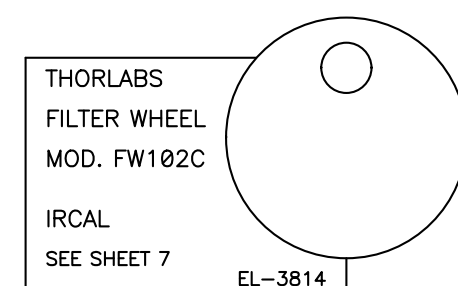
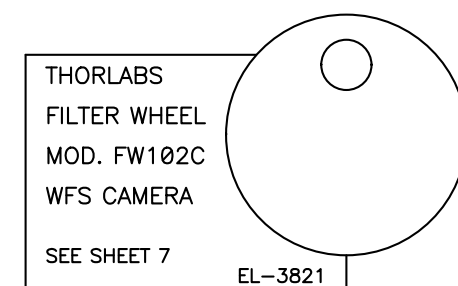
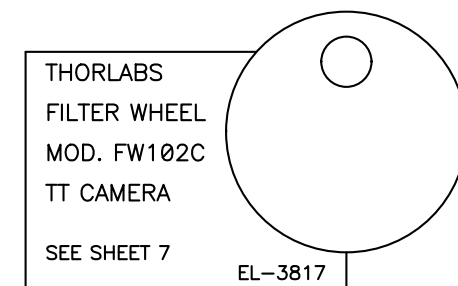
P/N: DMC-4080(ISCNTL)-C012(5V)-I200-I200-D3140-D3540

NEW FOCUS PICOMOTOR CONTROLLER #1 MODEL 8752 IP ADDRESS ?? ?? ?? ?? (8753 DRIVERS) SEE SHEET 6	1A	FM3 - TIP	EL-3813
	1B	FM3 - TILT	EL-3813
	1C	FM3 - PISTON	EL-3813

	2A	MEMS - X	EL-3824
	2B	MEMS - Y	EL-3824
	2C	MEMS - Z	EL-3824

	3A	MEMS - TIP	EL-3824
	3B	MEMS - TILT	EL-3824
	3C	CALIBRATION X	EL-3811

	3A	WFS Y FINE MOTION	EL-3819
	3B	WFS X FINE MOTION	EL-3819
	3C	-	-



NOTE:
SEE EL-3801, SHEET 2, 3 & 4 FOR ADDITIONAL INFORMATION ON GALIL CONTROLLERS OR WHEN MAKING CHANGES TO THIS DOCUMENT.

UNIVERSITY OF CALIFORNIA OBSERVATORIES		SHANE AO ELECTRONICS BLOCK DIAGRAM	
DES'N BY: M.L.SAYLOR	ORIGIN DATE: 02-23-12	DWG. NO.	NUM. 1 OF 7
Last SN	MODIFY DATE: 03-18-14	EL-3801	REV. A
PRINT TIME: 08:40:02	PRINT DATE: Wed Apr 23, 2014		
PATH: SAO/		SAO_block.sch	

REVISIONS

10-31-12	ADDED 4TH PICOMOTOR DRIVER
07-22-13	UPDATED SCHEMATIC TO REFLECT CONTROLLER 1,2 & 3 AXIS CONFIGURATION
00-05-13	ADDED IP ADDRESS & CONSTANTS TO DRAWING
10-02-13	UPDATED SCHEMATIC TO REFLECT CONTROLLER AXIS ASSIGNMENTS
03-18-14	REMOVED WFS FIELD STOP X & Y FROM STAGE A & B

http://loel.ucolick.org/manual/SAO/schematics/SAO_block_sh_1.pdf