

Squeezer Controls Chassis 4		Left Rail						
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin
<b>Power</b>								
24V	violet	L	OMRON	DC_1	24V	P	TBLOCK	
0V	gray	L	OMRON	DC_1	0V	P	TBLOCK	
24V	violet	L	EK1101	0	24V	P	TBLOCK	
0V	gray	L	EK1101	0	0V	P	TBLOCK	
5V_1	red	L	EK1101	0	+	P	DC_1	+V
5VRET_1	black	L	EK1101	0	-	P	DC_1	-V
24V	violet	L	EL9410	8	24V	P	TBLOCK	
0V	gray	L	EL9410	8	0V	P	TBLOCK	
5V_1	red	L	EL9410	8	+	P	DC_1	+V
5VRET_1	black	L	EL9410	8	-	P	DC_1	-V
24V	violet	L	EL9410	17	24V	P	TBLOCK	
0V	gray	L	EL9410	17	0V	P	TBLOCK	
5V_2	red	L	EL9410	17	+	P	DC_2	+V
5VRET_2	black	L	EL9410	17	-	P	DC_2	-V
5V_3	red	L	EL9190	23	+	P	DC_3	+V
5VRET_3	black	L	EL9190	23	-	P	DC_3	-V
24V	violet	L	OMRON	DC_2	24V	P	TBLOCK	
0V	gray	L	OMRON	DC_2	0V	P	TBLOCK	
24V	violet	L	OMRON	DC_3	24V	P	TBLOCK	
0V	gray	L	OMRON	DC_3	0V	P	TBLOCK	
<b>Coupler</b>								
Input	CAT5	L	EK1101	0	X2	Comm.	IN	
Output	CAT5	L	EK1101	0	X2	Comm.	M/O	X1
<b>Common Mode Servo B</b>								
Input monitor +	green	L	EL3104	1	+I1	AI	10	9
Input monitor -	white	L	EL3104	1	-I1	AI	10	28
Monitor at split +	green	L	EL3104	1	+I2	AI	10	10
Monitor at split -	white	L	EL3104	1	-I2	AI	10	29
Fast monitor +	green	L	EL3104	1	+I3	AI	10	11
Fast monitor -	white	L	EL3104	1	-I3	AI	10	30
Slow path feedback monitor +	green	L	EL3104	1	+I4	AI	10	12
Slow path feedback monitor -	white	L	EL3104	1	-I4	AI	10	31
5VRET_1	black	L	EL3102	2	COM	P	DC_1	-V
Slow monitor +	green	L	EL3102	2	+I1	AI	10	13
Slow monitor -	white	L	EL3102	2	-I1	AI	10	32
	green	L	EL3102	2	+I2	AI		
	white	L	EL3102	2	-I2	AI		
Common path offset +	blue	L	EL4134	3	O1	AO	10	15
Common path offset -	yellow	L	EL4134	3	COM	AO	10	34
Slow path offset +	blue	L	EL4134	3	O2	AO	10	16
Slow path offset -	yellow	L	EL4134	3	COM	AO	10	35
Slow path output offset +	blue	L	EL4134	3	O3	AO	10	17
Slow path output offset -	yellow	L	EL4134	3	COM	AO	10	36
	blue	L	EL4134	3	O4	AO		
	yellow	L	EL4134	3	COM	AO		
5VRET_1	black	L	EL1124	4	-	P	10	19
Fast path limits reached	brown	L	EL1124	4	I1	BI	10	6
OK	brown	L	EL1124	4	I2	BI	10	25
	brown	L	EL1124	4	I3	BI		
	brown	L	EL1124	4	I4	BI		
Gain slider fast path bit 0	orange	L	EL2124	5	O1	BO	10	1
Gain slider fast path bit 1	orange	L	EL2124	5	O2	BO	10	20
Gain slider fast path bit 2	orange	L	EL2124	5	O3	BO	10	2
Gain slider fast path bit 3	orange	L	EL2124	5	O4	BO	10	21
5VRET_1	black	L	EL2124	6	-	P	10	4
Gain slider fast path bit 4	orange	L	EL2124	6	O1	BO	10	3
Gain slider fast path bit 5	orange	L	EL2124	6	O2	BO	10	22
Excitation B enable	orange	L	EL2124	6	O3	BO	10	23
Option B enable	orange	L	EL2124	6	O4	BO	10	5
LE	orange	L	EL2124	7	O1	BO	10	24
Excitation slow path	orange	L	EL2124	7	O2	BO	10	7
Polarity input 1 path	orange	L	EL2124	7	O3	BO	10	26

Polarity input 2 path	orange	L	EL2124	7	O4	BO	10	8
SVRET_1	black	L	EL2124	9	-	P	11	4
Gain slider input 1 bit 0	orange	L	EL2124	9	O1	BO	11	1
Gain slider input 1 bit 1	orange	L	EL2124	9	O2	BO	11	20
Gain slider input 1 bit 2	orange	L	EL2124	9	O3	BO	11	2
Gain slider input 1 bit 3	orange	L	EL2124	9	O4	BO	11	21
Gain slider input 1 bit 4	orange	L	EL2124	10	O1	BO	11	3
Gain slider input 1 bit 5	orange	L	EL2124	10	O2	BO	11	22
Gain slider input 2 bit 0	orange	L	EL2124	10	O3	BO	11	23
Gain slider input 2 bit 1	orange	L	EL2124	10	O4	BO	11	5
Gain slider input 2 bit 2	orange	L	EL2124	11	O1	BO	11	24
Gain slider input 2 bit 3	orange	L	EL2124	11	O2	BO	11	6
Gain slider input 2 bit 4	orange	L	EL2124	11	O3	BO	11	25
Gain slider input 2 bit 5	orange	L	EL2124	11	O4	BO	11	7
Input 1 enable	orange	L	EL2124	12	O1	BO	11	8
Input 2 enable	orange	L	EL2124	12	O2	BO	11	27
Output 1 switch	orange	L	EL2124	12	O3	BO	11	9
Boost stages bit 0	orange	L	EL2124	12	O4	BO	11	28
Boost stages bit 1	orange	L	EL2124	13	O1	BO	11	10
Compensation enable	orange	L	EL2124	13	O2	BO	11	29
Excitation A enable	orange	L	EL2124	13	O3	BO	11	30
Option A enable	orange	L	EL2124	13	O4	BO	11	12
SVRET_1	black	L	EL2124	14	-	P	11	33
Polarity slow path	orange	L	EL2124	14	O1	BO	11	31
Common filter enable	orange	L	EL2124	14	O2	BO	11	13
Fast path enable	orange	L	EL2124	14	O3	BO	11	32
Fast path polarity	orange	L	EL2124	14	O4	BO	11	14
Slow path option enable	orange	L	EL2124	15	O1	BO	11	15
Bypass enable	orange	L	EL2124	15	O2	BO	11	34
Slow output offset +5V fixed	orange	L	EL2124	15	O3	BO	11	16
Slow output offset enable	orange	L	EL2124	15	O4	BO	11	35
Slow path compensation enable	orange	L	EL2124	16	O1	BO	11	17
Slow path boost enable	orange	L	EL2124	16	O2	BO	11	36
Slow path filter enable	orange	L	EL2124	16	O3	BO	11	37
Fast path limiter enable	orange	L	EL2124	16	O4	BO	11	19
<b>Low Noise VCO</b>								
Monitor 1 +	green	L	EL3104	18	+1	AI	12	1
Monitor 1 -	white	L	EL3104	18	-1	AI	12	14
Monitor 2 +	green	L	EL3104	18	+2	AI	12	2
Monitor 2 -	white	L	EL3104	18	-2	AI	12	15
Monitor 3 +	green	L	EL3104	18	+3	AI	12	3
Monitor 3 -	white	L	EL3104	18	-3	AI	12	16
Temp 1 +	green	L	EL3104	18	+4	AI	12	4
Temp 1 -	white	L	EL3104	18	-4	AI	12	17
Temp 2 +	green	L	EL3104	19	+1	AI	12	5
Temp 2 -	white	L	EL3104	19	-1	AI	12	18
Temp 3 +	green	L	EL3104	19	+2	AI	12	6
Temp 3 -	white	L	EL3104	19	-2	AI	12	19
Tune monitor +	green	L	EL3104	19	+3	AI	12	10
Tune monitor -	white	L	EL3104	19	-3	AI	12	23
Spare +	green	L	EL3104	19	+4	AI	12	12
Spare -	white	L	EL3104	19	-4	AI	12	25
Tune adjust +	blue	L	EL4132	20	O1	AO	12	11
Tune adjust -	yellow	L	EL4132	20	COM	AO	12	24
	blue	L	EL4132	20	O2	AO		
	yellow	L	EL4132	20	COM	AO		
SVRET_2	black	L	EL1124	21	-	P	12	20
Excitation switch	brown	L	EL1124	21	I1	BI	12	9
OK	brown	L	EL1124	21	I2	BI	12	7
	brown	L	EL1124	21	I3	BI		
	brown	L	EL1124	21	I4	BI		
Excitation enable	orange	L	EL2124	22	O1	BO	12	8
	orange	L	EL2124	22	O2	BO		
	orange	L	EL2124	22	O3	BO		
	orange	L	EL2124	22	O4	BO		
<b>Delay Line Phase Shifter</b>								

SVRET_3	black	L	EL2124	24	-	P	13	14
Bit 0/A	orange	L	EL2124	24	O1	BO	13	1
Bit 1/A	orange	L	EL2124	24	O2	BO	13	2
Bit 2/A	orange	L	EL2124	24	O3	BO	13	3
Bit 3/A	orange	L	EL2124	24	O4	BO	13	4
Bit 4/A	orange	L	EL2124	25	O1	BO	13	5
Bit 5/A	orange	L	EL2124	25	O2	BO	13	6
Bit 6/A	orange	L	EL2124	25	O3	BO	13	7
Bit 7/A	orange	L	EL2124	25	O4	BO	13	8
Bit 8/A	orange	L	EL2124	26	O1	BO	13	9
LE/A	orange	L	EL2124	26	O2	BO	13	10
	orange	L	EL2124	26	O3	BO		
	orange	L	EL2124	26	O4	BO		

Squeezer Controls Chassis 4				Middle Rail				
Name	Color	RaiM	Module	Number	Channel	Type	Adapter	Pin
<b>Power</b>								
24V	violet	M	OMRON	DC_4	24V	P	TBLOCK	
0V	gray	M	OMRON	DC_4	0V	P	TBLOCK	
24V	violet	M	EK1100	0	24V	P	TBLOCK	
0V	gray	M	EK1100	0	0V	P	TBLOCK	
5V_4	red	M	EK1100	0	+	P	DC_4	+V
5VRET_4	black	M	EK1100	0	-	P	DC_4	-V
24V	violet	M	EL9410	6	24V	P	TBLOCK	
0V	gray	M	EL9410	6	0V	P	TBLOCK	
5V_5	red	M	EL9410	6	+	P	DC_5	+V
5VRET_5	black	M	EL9410	6	-	P	DC_5	-V
24V	violet	M	EL9410	12	24V	P	TBLOCK	
0V	gray	M	EL9410	12	0V	P	TBLOCK	
24V	violet	M	EL9410	12	24V	P	TBLOCK	+V
0V	gray	M	EL9410	12	0V	P	TBLOCK	-V
24V	violet	M	EL9410	18	24V	P	TBLOCK	
0V	gray	M	EL9410	18	0V	P	TBLOCK	
24V	violet	M	EL9410	18	24V	P	TBLOCK	+V
0V	gray	M	EL9410	18	0V	P	TBLOCK	-V
24V	violet	M	OMRON	DC_5	24V	P	TBLOCK	
0V	gray	M	OMRON	DC_5	0V	P	TBLOCK	
24V	violet	Rear	D1201359	5/J2-1	24V	P	TBLOCK	
0V	gray	Rear	D1201359	5/J2-2	0V	P	TBLOCK	
24V	violet	Rear	D1201359	6/J2-1	24V	P	TBLOCK	
0V	gray	Rear	D1201359	6/J2-2	0V	P	TBLOCK	
24V	violet	Rear	D1201359	7/J2-1	24V	P	TBLOCK	
0V	gray	Rear	D1201359	7/J2-2	0V	P	TBLOCK	
24V	violet	Rear	D1201359	8/J2-1	24V	P	TBLOCK	
0V	gray	Rear	D1201359	8/J2-2	0V	P	TBLOCK	
<b>Coupler</b>								
Output	CAT5	M	EK1100	0	X2	Comm.	R/0	X1
<b>VCXO RLF</b>								
Monitor 1 +	green	M	EL3104	1	+11	AI	3	1
Monitor 1 -	white	M	EL3104	1	-11	AI	3	14
Monitor 2 +	green	M	EL3104	1	+12	AI	3	2
Monitor 2 -	white	M	EL3104	1	-12	AI	3	15
Monitor 3 +	green	M	EL3104	1	+13	AI	3	3
Monitor 3 -	white	M	EL3104	1	-13	AI	3	16
Temp 1 +	green	M	EL3104	1	+14	AI	3	4
Temp 1 -	white	M	EL3104	1	-14	AI	3	17
Temp 2 +	green	M	EL3104	2	+11	AI	3	5
Temp 2 -	white	M	EL3104	2	-11	AI	3	18
Temp 3 +	green	M	EL3104	2	+12	AI	3	6
Temp 3 -	white	M	EL3104	2	-12	AI	3	19
Tune monitor +	green	M	EL3104	2	+13	AI	3	10
Tune monitor -	white	M	EL3104	2	-13	AI	3	23
Spare +	green	M	EL3104	2	+14	AI	3	12
Spare -	white	M	EL3104	2	-14	AI	3	25
Tune adjust +	blue	M	EL4132	3	O1	AO	3	11
Tune adjust -	yellow	M	EL4132	3	COM	AO	3	24
	blue	M	EL4132	3	O2	AO		
	yellow	M	EL4132	3	COM	AO		
5VRET_4	black	M	EL1124	4	-	P	3	20
Excitation switch	brown	M	EL1124	4	I1	BI	3	9
OK	brown	M	EL1124	4	I2	BI	3	7
	brown	M	EL1124	4	I3	BI		
	brown	M	EL1124	4	I4	BI		
Excitation enable	orange	M	EL2124	5	O1	BO	3	8
	orange	M	EL2124	5	O2	BO		
	orange	M	EL2124	5	O3	BO		
	orange	M	EL2124	5	O4	BO		
<b>VCXO ADF</b>								
Monitor 1 +	green	M	EL3104	7	+11	AI	4	1

Monitor 1 –	white	M	EL3104	7	-11	AI	4	14
Monitor 2 +	green	M	EL3104	7	+12	AI	4	2
Monitor 2 –	white	M	EL3104	7	-12	AI	4	15
Monitor 3 +	green	M	EL3104	7	+13	AI	4	3
Monitor 3 –	white	M	EL3104	7	-13	AI	4	16
Temp 1 +	green	M	EL3104	7	+14	AI	4	4
Temp 1 –	white	M	EL3104	7	-14	AI	4	17
Temp 2 +	green	M	EL3104	8	+11	AI	4	5
Temp 2 –	white	M	EL3104	8	-11	AI	4	18
Temp 3 +	green	M	EL3104	8	+12	AI	4	6
Temp 3 –	white	M	EL3104	8	-12	AI	4	19
Tune monitor +	green	M	EL3104	8	+13	AI	4	10
Tune monitor –	white	M	EL3104	8	-13	AI	4	23
Spare +	green	M	EL3104	8	+14	AI	4	12
Spare –	white	M	EL3104	8	-14	AI	4	25
Tune adjust +	blue	M	EL4132	9	O1	AO	4	11
Tune adjust –	yellow	M	EL4132	9	COM	AO	4	24
	blue	M	EL4132	9	O2	AO		
	yellow	M	EL4132	9	COM	AO		
SVRET_4	black	M	EL1124	10	-	P	4	20
Excitation switch	brown	M	EL1124	10	I1	BI	4	9
OK	brown	M	EL1124	10	I2	BI	4	7
	brown	M	EL1124	10	I3	BI		
	brown	M	EL1124	10	I4	BI		
Excitation enable	orange	M	EL2124	11	O1	BO	4	8
	orange	M	EL2124	11	O2	BO		
	orange	M	EL2124	11	O3	BO		
	orange	M	EL2124	11	O4	BO		
<b>SF1/SF2/OFI/Spare Oven</b>								
GND	black	M	EL9410	12	0V	P	5	8
GND	black	M	EL9410	12	0V	P	6	8
GND	black	M	EL9410	12	0V	P	7	8
GND	black	M	EL9410	12	0V	P	8	8
Temperature Supply 1 +	red	M	EL3692	13	+R1	AI	5	1
Temperature Supply 1 –	black	M	EL3692	13	-R1	AI	5	9
Temperature Readback 1 +	green	M	EL3692	13	+RL1	AI	5	2
Temperature Readback 1 –	white	M	EL3692	13	-RL1	AI	5	10
Temperature Supply 2 +	red	M	EL3692	13	+R2	AI	6	1
Temperature Supply 2 –	black	M	EL3692	13	-R2	AI	6	9
Temperature Readback 2 +	green	M	EL3692	13	+RL2	AI	6	2
Temperature Readback 2 –	white	M	EL3692	13	-RL2	AI	6	10
Temperature Supply 3 +	red	M	EL3692	14	+R1	AI	7	1
Temperature Supply 3 –	black	M	EL3692	14	-R1	AI	7	9
Temperature Readback 3 +	green	M	EL3692	14	+RL1	AI	7	2
Temperature Readback 3 –	white	M	EL3692	14	-RL1	AI	7	10
Temperature Supply 4 +	red	M	EL3692	14	+R2	AI	8	1
Temperature Supply 4 –	black	M	EL3692	14	-R2	AI	8	9
Temperature Readback 4 +	green	M	EL3692	14	+RL2	AI	8	2
Temperature Readback 4 –	white	M	EL3692	14	-RL2	AI	8	10
Current monitor 1 +	green	M	EL3104	15	+11	AI	5	6
Current monitor 1 –	white	M	EL3104	15	-11	AI	5	14
Remote voltage monitor 1 +	green	M	EL3104	15	+12	AI	5	7
Remote voltage monitor 1 –	white	M	EL3104	15	-12	AI	5	15
Current monitor 2 +	green	M	EL3104	15	+13	AI	6	6
Current monitor 2 –	white	M	EL3104	15	-13	AI	6	14
Remote voltage monitor 2 +	green	M	EL3104	15	+14	AI	6	7
Remote voltage monitor 2 –	white	M	EL3104	15	-14	AI	6	15
Current monitor 3 +	green	M	EL3104	16	+11	AI	7	6
Current monitor 3 –	white	M	EL3104	16	-11	AI	7	14
Remote voltage monitor 3 +	green	M	EL3104	16	+12	AI	7	7
Remote voltage monitor 3 –	white	M	EL3104	16	-12	AI	7	15
Current monitor 4 +	green	M	EL3104	16	+13	AI	8	6
Current monitor 4 –	white	M	EL3104	16	-13	AI	8	14
Remote voltage monitor 4 +	green	M	EL3104	16	+14	AI	8	7
Remote voltage monitor 4 –	white	M	EL3104	16	-14	AI	8	15
Set current/voltage 1 +	blue	M	EL4134	17	O1	AO	5	3

Set current/voltage 1 –	yellow	M	EL4134	17	COM	AO	5	11
Set current/voltage 2 +	blue	M	EL4134	17	O2	AO	6	3
Set current/voltage 2 –	yellow	M	EL4134	17	COM	AO	6	11
Set current/voltage 3 +	blue	M	EL4134	17	O3	AO	7	3
Set current/voltage 3 –	yellow	M	EL4134	17	COM	AO	7	11
Set current/voltage 4 +	blue	M	EL4134	17	O4	AO	8	3
Set current/voltage 4 –	yellow	M	EL4134	17	COM	AO	8	11
<b>Temperature Sensors(*)</b>								
Temperature Supply 1 +	white	M	EL3692	19	+R1	AI	9	1-2
Temperature Supply 1 –	black	M	EL3692	19	-R1	AI	9	1-4
Temperature Readback 1 +	brown	M	EL3692	19	+RL1	AI	9	1-1
Temperature Readback 1 –	blue	M	EL3692	19	-RL1	AI	9	1-3
Temperature Supply 2 +	white	M	EL3692	19	+R2	AI	9	2-2
Temperature Supply 2 –	black	M	EL3692	19	-R2	AI	9	2-4
Temperature Readback 2 +	brown	M	EL3692	19	+RL2	AI	9	2-1
Temperature Readback 2 –	blue	M	EL3692	19	-RL2	AI	9	2-3
Temperature Supply 3 +	white	M	EL3692	20	+R1	AI	9	3-2
Temperature Supply 3 –	black	M	EL3692	20	-R1	AI	9	3-4
Temperature Readback 3 +	brown	M	EL3692	20	+RL1	AI	9	3-1
Temperature Readback 3 –	blue	M	EL3692	20	-RL1	AI	9	3-3
Temperature Supply 4 +	white	M	EL3692	20	+R2	AI	9	4-2
Temperature Supply 4 –	black	M	EL3692	20	-R2	AI	9	4-4
Temperature Readback 4 +	brown	M	EL3692	20	+RL2	AI	9	4-1
Temperature Readback 4 –	blue	M	EL3692	20	-RL2	AI	9	4-3

(\*) M12 socket/wires have the following color convention: +R1 (white), -R1 (black), +RL (brown) and -RL (blue)

Squeezer Controls Chassis 4				Right Rail				
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin
<b>Power</b>								
24V	violet	R	OMRON	DC_6	24V	P	TBLOCK	
0V	gray	R	OMRON	DC_6	0V	P	TBLOCK	
24V	violet	R	EK1100	0	24V	P	TBLOCK	
0V	gray	R	EK1100	0	0V	P	TBLOCK	
24V	violet	R	EK1100	0	24V	P	TBLOCK	
0V	gray	R	EK1100	0	0V	P	TBLOCK	
24V	violet	R	EL9410	7	24V	P	TBLOCK	
0V	gray	R	EL9410	7	0V	P	TBLOCK	
5V_6	red	R	EL9410	7	+	P	DC_5	+V
5VRET_6	black	R	EL9410	7	-	P	DC_5	-V
5V_6	red	front	LED	A	+	P	DC_5	+V
5VRET_6	black	front	LED	K	-	P	DC_5	-V
24V	violet	R	EL9190	11	24V	P	TBLOCK	
0V	gray	R	EL9190	11	0V	P	TBLOCK	
<b>Coupler</b>								
Output	CAT5	R	EK1100	0	X2	Comm.	OUT	
<b>Beam Diverters</b>								
24V(*)	violet	R	EL7332	1	+	P	TBLOCK	
0V(*)	gray	R	EL7332	1	-	P	TBLOCK	
Motor A +(*)	violet	R	EL7332	1	A1	P	C	1
Motor A -(*)	gray	R	EL7332	1	A2	P	C	6
Motor B +(*)	violet	R	EL7332	1	B1	P	D	1
Motor B -(*)	gray	R	EL7332	1	B2	P	D	6
		R	EL7332	1	I1	BI		
		R	EL7332	1	I2	BI		
End switch A1	brown	R	EL1094	2	I1	BI	C	2
0V	gray	R	EL1094	2	-	P	C	7
End switch A2	brown	R	EL1094	2	I2	BI	C	3
0V	gray	R	EL1094	2	-	P	C	8
End switch A1	brown	R	EL1094	2	I3	BI	D	2
0V	gray	R	EL1094	2	-	P	D	7
End switch A2	brown	R	EL1094	2	I4	BI	D	3
0V	gray	R	EL1094	2	-	P	D	8
<b>Shutter Control</b>								
Shutter A1 Monitor	brown	R	EL1094	3	I1	BI	A	5
0V	gray	R	EL1094	3	-	P	A	8
Shutter A2 Monitor	brown	R	EL1094	3	I2	BI	A	13
		R	EL1094	3	-	P		
Shutter B1 Monitor	brown	R	EL1094	3	I3	BI	B	5
0V	gray	R	EL1094	3	-	P	B	8
Shutter B2 Monitor	brown	R	EL1094	3	I4	BI	B	13
		R	EL1094	3	-	P		
Shutter A1 Close	orange	R	EL2008	4	O1	BO	A	6
Shutter A2 Close	orange	R	EL2008	4	O2	BO	A	14
Shutter A1 Open	orange	R	EL2008	4	O3	BO	A	7
Shutter A2 Open	orange	R	EL2008	4	O4	BO	A	15
Shutter B1 Close	orange	R	EL2008	4	O5	BO	B	6
Shutter B2 Close	orange	R	EL2008	4	O6	BO	B	14
Shutter B1 Open	orange	R	EL2008	4	O7	BO	B	7
Shutter B2 Open	orange	R	EL2008	4	O8	BO	B	15
Shutter A1 PD +	green	R	EL3104	5	+I1	AI	A	2
Shutter A1 PD -	white	R	EL3104	5	-I1	AI	A	10
Shutter A2 PD +	green	R	EL3104	5	+I2	AI	A	4
Shutter A2 PD -	white	R	EL3104	5	-I2	AI	A	12
Shutter C1 PD +	green	R	EL3104	5	+I3	AI	B	2
Shutter C1 PD -	white	R	EL3104	5	-I3	AI	B	10
Shutter C2 PD +	green	R	EL3104	5	+I4	AI	B	4
Shutter C2 PD -	white	R	EL3104	5	-I4	AI	B	12
Shutter A1 TH +	blue	R	EL4134	6	O1	AO	A	1
Shutter A1 TH -	yellow	R	EL4134	6	COM	AO	A	9
Shutter A2 TH +	blue	R	EL4134	6	O2	AO	A	3
Shutter A2 TH -	yellow	R	EL4134	6	COM	AO	A	11

Shutter B1 TH +	blue	R	EL4134	6	O3	AO	B	1
Shutter B1 TH –	yellow	R	EL4134	6	COM	AO	B	9
Shutter B2 TH +	blue	R	EL4134	6	O4	AO	B	3
Shutter B2 TH –	yellow	R	EL4134	6	COM	AO	B	11
<b>PLL Integration</b>								
Monitor 1 +	green	R	EL3104	8	+11	AI	1	1
Monitor 1 –	white	R	EL3104	8	–11	AI	1	14
Monitor 2 +	green	R	EL3104	8	+12	AI	1	2
Monitor 2 –	white	R	EL3104	8	–12	AI	1	15
Monitor 3 +	green	R	EL3104	8	+13	AI	1	3
Monitor 3 –	white	R	EL3104	8	–13	AI	1	16
Temp 1 +	green	R	EL3104	8	+14	AI	1	4
Temp 1 –	white	R	EL3104	8	–14	AI	1	17
SVRET_6	black	R	EL1124	9	–	P	1	20
Excitation switch	brown	R	EL1124	9	I1	BI	1	9
OK	brown	R	EL1124	9	I2	BI	1	7
	brown	R	EL1124	9	I3	BI		
	brown	R	EL1124	9	I4	BI		
Excitation enable	orange	R	EL2124	10	O1	BO	1	8
	orange	R	EL2124	10	O2	BO		
	orange	R	EL2124	10	O3	BO		
	orange	R	EL2124	10	O4	BO		
<b>FC QPDs</b>								
GND	black	R	EL9190	11	0V	P	2	25
Monitor A4 +	green	R	EL3104	12	+11	AI	2	1
Monitor A4 –	white	R	EL3104	12	–11	AI	2	14
Monitor A3 +	green	R	EL3104	12	+12	AI	2	2
Monitor A3 –	white	R	EL3104	12	–12	AI	2	15
Monitor A1 +	green	R	EL3104	12	+13	AI	2	3
Monitor A1 –	white	R	EL3104	12	–13	AI	2	16
Monitor A2 +	green	R	EL3104	12	+14	AI	2	4
Monitor A2 –	white	R	EL3104	12	–14	AI	2	17
Monitor B4 +	green	R	EL3104	13	+11	AI	2	5
Monitor B4 –	white	R	EL3104	13	–11	AI	2	18
Monitor B3 +	green	R	EL3104	13	+12	AI	2	6
Monitor B3 –	white	R	EL3104	13	–12	AI	2	19
Monitor B1 +	green	R	EL3104	13	+13	AI	2	7
Monitor B1 –	white	R	EL3104	13	–13	AI	2	20
Monitor B2 +	green	R	EL3104	13	+14	AI	2	8
Monitor B2 –	white	R	EL3104	13	–14	AI	2	21

\* use AWG16 hookup wire