

Chassis C			Left Rail					V2	
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin	
Power									
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	EL9400	6	24V	P	TBLOCK		
0V	gray	L	EL9400	6	0V	P	TBLOCK		
24V	violet	L	EL9400	6	24V	P	TBLOCK	+V	
0V	gray	L	EL9400	6	0V	P	TBLOCK	-V	
Delay Line Phase Shifter A/B									
5VRET_1	black	R	EL1124	1	-	P	8	14	
Bit 0/A	orange	R	EL2124	1	O1	BO	8	1	
Bit 1/A	orange	R	EL2124	1	O2	BO	8	2	
Bit 2/A	orange	R	EL2124	1	O3	BO	8	3	
Bit 3/A	orange	R	EL2124	1	O4	BO	8	4	
Bit 4/A	orange	R	EL2124	2	O1	BO	8	5	
Bit 5/A	orange	R	EL2124	2	O2	BO	8	6	
Bit 6/A	orange	R	EL2124	2	O3	BO	8	7	
Bit 7/A	orange	R	EL2124	2	O4	BO	8	8	
Bit 8/A	orange	R	EL2124	3	O1	BO	8	9	
LE/A	orange	R	EL2124	3	O2	BO	8	10	
Bit 0/B	orange	R	EL2124	3	O3	BO	9	1	
Bit 1/B	orange	R	EL2124	3	O4	BO	9	2	
5VRET_4	black	R	EL1124	4	-	P	9	14	
Bit 2/B	orange	R	EL2124	4	O1	BO	9	3	
Bit 3/B	orange	R	EL2124	4	O2	BO	9	4	
Bit 4/B	orange	R	EL2124	4	O3	BO	9	5	
Bit 5/B	orange	R	EL2124	4	O4	BO	9	6	
Bit 6/B	orange	R	EL2124	5	O1	BO	9	7	
Bit 7/B	orange	R	EL2124	5	O2	BO	9	8	
Bit 8/B	orange	R	EL2124	5	O3	BO	9	9	
LE/B	orange	R	EL2124	5	O4	BO	9	10	
Photodiode Interface / RF Distribution Amplifiers									
PD GND	black	L	EL3102	7	COM	P	7	33	
DC monitor 1 +	green	L	EL3102	7	+1	AI	7	18	
DC monitor 1 -	white	L	EL3102	7	-1	AI	7	37	
DC monitor 2 +	green	L	EL3102	7	+12	AI	7	17	
DC monitor 2 -	white	L	EL3102	7	-12	AI	7	36	
PD GND	black	L	EL3102	8	COM	P	7	33	
DC monitor 3 +	green	L	EL3102	8	+1	AI	7	16	
DC monitor 3 -	white	L	EL3102	8	-1	AI	7	35	
DC monitor 4 +	green	L	EL3102	8	+12	AI	7	15	
DC monitor 4 -	white	L	EL3102	8	-12	AI	7	34	
PD GND	black	L	EL3102	9	COM	P	7	33	
PD OK +	green	L	EL3102	9	+1	AI	7	14	
PD OK -	white	L	EL3102	9	-1	AI	7	33	
RF OK +	green	L	EL3102	9	+12	AI	7	13	
RF OK -	white	L	EL3102	9	-12	AI	7	32	
RF GND	black	L	EL3102	10	COM	P	7	32	
A Monitor 1 +	green	L	EL3102	10	+1	AI	7	12	
A Monitor 1 -	white	L	EL3102	10	-1	AI	7	31	
A Monitor 2 +	green	L	EL3102	10	+12	AI	7	11	
A Monitor 2 -	white	L	EL3102	10	-12	AI	7	30	
RF GND	black	L	EL3102	11	COM	P	7	32	
A Monitor 3 +	green	L	EL3102	11	+1	AI	7	10	
A Monitor 3 -	white	L	EL3102	11	-1	AI	7	29	
B Monitor 1 +	green	L	EL3102	11	+12	AI	7	9	
B Monitor 1 -	white	L	EL3102	11	-12	AI	7	28	
RF GND	black	L	EL3102	12	COM	P	7	32	
B Monitor 2 +	green	L	EL3102	12	+1	AI	7	8	

B Monitor 2 –	white	L	EL3102	12	–1	AI	7	27
B Monitor 3 +	green	L	EL3102	12	+12	AI	7	7
B Monitor 3 –	white	L	EL3102	12	–12	AI	7	26
RF GND	black	L	EL3102	13	COM	P	7	32
C Monitor 1 +	green	L	EL3102	13	+1	AI	7	6
C Monitor 1 –	white	L	EL3102	13	–1	AI	7	25
C Monitor 2 +	green	L	EL3102	13	+12	AI	7	5
C Monitor 2 –	white	L	EL3102	13	–12	AI	7	24
RF GND	black	L	EL3102	14	COM	P	7	32
C Monitor 3 +	green	L	EL3102	14	+1	AI	7	4
C Monitor 3 –	white	L	EL3102	14	–1	AI	7	23
D Monitor 1 +	green	L	EL3102	14	+12	AI	7	3
D Monitor 1 –	white	L	EL3102	14	–12	AI	7	22
RF GND	black	L	EL3102	15	COM	P	7	32
D Monitor 2 +	green	L	EL3102	15	+1	AI	7	2
D Monitor 2 –	white	L	EL3102	15	–1	AI	7	21
D Monitor 3 +	green	L	EL3102	15	+12	AI	7	1
D Monitor 3 –	white	L	EL3102	15	–12	AI	7	20

Chassis C			Middle Rail					V2	
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin	
Power									
24V	violet	M	OMRON	DC_2	24V	P	TBLOCK		
0V	gray	M	OMRON	DC_2	0V	P	TBLOCK		
24V	violet	M	EK1101	0	24V	P	TBLOCK		
0V	gray	M	EK1101	0	0V	P	TBLOCK		
24V	violet	M	EK1101	0	+	P	TBLOCK		
0V	gray	M	EK1101	0	-	P	TBLOCK		
24V	violet	M	EL9400	9	24V	P	TBLOCK		
0V	gray	M	EL9400	9	0V	P	TBLOCK		
5V_2	red	M	EL9400	9	+	P	DC_2	+V	
5VRET_2	black	M	EL9400	9	-	P	DC_2	-V	
Auxiliary A/B									
5VRET_2	black	M	EL3102	1	COM	P	DC_2		
Analog Aux In 1 +	green	M	EL3102	1	+I1	AI	5	1	
Analog Aux In 1 -	white	M	EL3102	1	-I1	AI	5	20	
Analog Aux In 2 +	green	M	EL3102	1	+I2	AI	5	2	
Analog Aux In 2 -	white	M	EL3102	1	-I2	AI	5	21	
5VRET_2	black	M	EL3102	2	COM	P	DC_2		
Analog Aux In 3 +	green	M	EL3102	2	+I1	AI	5	3	
Analog Aux In 3 -	white	M	EL3102	2	-I1	AI	5	22	
Analog Aux In 4 +	green	M	EL3102	2	+I2	AI	5	4	
Analog Aux In 4 -	white	M	EL3102	2	-I2	AI	5	23	
5VRET_2	black	M	EL3102	3	COM	P	DC_2		
Analog Aux In 5 +	green	M	EL3102	3	+I1	AI	5	5	
Analog Aux In 5 -	white	M	EL3102	3	-I1	AI	5	24	
Analog Aux In 6 +	green	M	EL3102	3	+I2	AI	5	6	
Analog Aux In 6 -	white	M	EL3102	3	-I2	AI	5	25	
5VRET_2	black	M	EL3102	4	COM	P	DC_2		
Analog Aux In 7 +	green	M	EL3102	4	+I1	AI	5	7	
Analog Aux In 7 -	white	M	EL3102	4	-I1	AI	5	26	
Analog Aux In 8 +	green	M	EL3102	4	+I2	AI	5	8	
Analog Aux In 8 -	white	M	EL3102	4	-I2	AI	5	27	
5VRET_2	black	M	EL3102	5	COM	P	DC_2		
Analog Aux In 9 +	green	M	EL3102	5	+I1	AI	5	9	
Analog Aux In 9 -	white	M	EL3102	5	-I1	AI	5	28	
Analog Aux In 10 +	green	M	EL3102	5	+I2	AI	5	10	
Analog Aux In 10 -	white	M	EL3102	5	-I2	AI	5	29	
5VRET_2	black	M	EL3102	6	COM	P	DC_2		
Analog Aux In 11 +	green	M	EL3102	6	+I1	AI	5	15	
Analog Aux In 11 -	white	M	EL3102	6	-I1	AI	5	34	
Analog Aux In 12 +	green	M	EL3102	6	+I2	AI	5	16	
Analog Aux In 12-	white	M	EL3102	6	-I2	AI	5	35	
5VRET_2	black	M	EL4132	7	COM	P	DC_2		
Analog Aux Out 1 +	blue	M	EL4132	7	O1	AO	6	1	
Analog Aux Out 1 -	yellow	M	EL4132	7	COM	AO	6	20	
Analog Aux Out 2 +	blue	M	EL4132	7	O2	AO	6	2	
Analog Aux Out 2 -	yellow	M	EL4132	7	COM	AO	6	21	
5VRET_2	black	M	EL4132	8	COM	P	DC_2		
Analog Aux Out 3 +	blue	M	EL4132	8	O1	AO	6	3	
Analog Aux Out 3 -	yellow	M	EL4132	8	COM	AO	6	22	
Analog Aux Out 4 +	blue	M	EL4132	8	O2	AO	6	4	
Analog Aux Out 4 -	yellow	M	EL4132	8	COM	AO	6	23	
5VRET_2	black	M	EL4132	9	COM	P	DC_2		
Analog Aux Out 5 +	blue	M	EL4132	9	O1	AO	6	5	
Analog Aux Out 5 -	yellow	M	EL4132	9	COM	AO	6	24	
Analog Aux Out 6 +	blue	M	EL4132	9	O2	AO	6	6	
Analog Aux Out 6 -	yellow	M	EL4132	9	COM	AO	6	25	
5VRET_2	black	M	EL4132	10	COM	P	DC_2		
Analog Aux Out 7 +	blue	M	EL4132	10	O1	AO	6	7	
Analog Aux Out 7 -	yellow	M	EL4132	10	COM	AO	6	26	
Analog Aux Out 8 +	blue	M	EL4132	10	O2	AO	6	8	
Analog Aux Out 8 -	yellow	M	EL4132	10	COM	AO	6	27	

5VRET_2	black	M	EL1124	12	-	P	5	19
5VRET_2	black	M	EL1124	12	-	P	5	30
5VRET_2	black	M	EL1124	12	-	P	5	31
5VRET_2	black	M	EL1124	12	-	P	5	32
5VRET_2	black	M	EL1124	12	-	P	5	33
Digital Aux In 1	brown	M	EL1124	12	I1	BI	5	11
Digital Aux In 2	brown	M	EL1124	12	I2	BI	5	12
Digital Aux In 3	brown	M	EL1124	12	I3	BI	5	13
Digital Aux In 4	brown	M	EL1124	12	I4	BI	5	14
Digital Aux In 5	brown	M	EL1124	13	I1	BI		
Digital Aux In 6	brown	M	EL1124	13	I2	BI		
Digital Aux In 7	brown	M	EL1124	13	I3	BI		
Digital Aux In 8	brown	M	EL1124	13	I4	BI		
5VRET_2	black	M	EL1124	14	-	P	6	19
5VRET_2	black	M	EL1124	14	-	P	6	30
5VRET_2	black	M	EL1124	14	-	P	6	31
5VRET_2	black	M	EL1124	14	-	P	6	32
5VRET_2	black	M	EL1124	14	-	P	6	33
Digital Aux Out 1	orange	M	EL2124	14	O1	BO	6	11
Digital Aux Out 2	orange	M	EL2124	14	O2	BO	6	12
Digital Aux Out 3	orange	M	EL2124	14	O3	BO	6	13
Digital Aux Out 4	orange	M	EL2124	14	O4	BO	6	14
Digital Aux Out 5	orange	M	EL2124	15	O1	BO		
Digital Aux Out 6	orange	M	EL2124	15	O2	BO		
Digital Aux Out 7	orange	M	EL2124	15	O3	BO		
Digital Aux Out 8	orange	M	EL2124	15	O4	BO		

Chassis C			Right Rail					V2	
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin	
Power									
24V	violet	R	OMRON	DC_3	24V	P	TBLOCK		
0V	gray	R	OMRON	DC_3	0V	P	TBLOCK		
24V	violet	R	EK1101	0	24V	P	TBLOCK		
0V	gray	R	EK1101	0	0V	P	TBLOCK		
24V	violet	R	EK1101	0	+	P	TBLOCK		
0V	gray	R	EK1101	0	-	P	TBLOCK		
24V	violet	R	EL9400		24V	P	TBLOCK		
0V	gray	R	EL9400		0V	P	TBLOCK		
5V_3	red	R	EL9400		+	P	DC_3	+V	
5VRET_3	black	R	EL9400		-	P	DC_3	-V	
Serial									
Port A	D-sub	R	EL6002	1	X1	Serial	A		
Port B	D-sub	R	EL6002	1	X2	Serial	A		
Flipper Mirrors and Sensors									
Sensors	IDC	R	EL1872	3	X1	AI	4	SENS	
Actuators	IDC	R	EL2872	4	X1	AO	4	ACT	
WFS 1 & 2									
5VRET_2	black	R	EL9190	5	-	P	2	13	
WFS 1 Channel 1 Q +	green	R	EL3104	6	+11	AI	2	1	
WFS 1 Channel 1 Q -	white	R	EL3104	6	-11	AI	2	14	
WFS 1 Channel 1 I +	green	R	EL3104	6	+12	AI	2	2	
WFS 1 Channel 1 I -	white	R	EL3104	6	-12	AI	2	15	
WFS 1 Channel 2 Q +	green	R	EL3104	6	+13	AI	2	3	
WFS 1 Channel 2 Q -	white	R	EL3104	6	-13	AI	2	16	
WFS 1 Channel 2 I +	green	R	EL3104	6	+14	AI	2	4	
WFS 1 Channel 2 I -	white	R	EL3104	6	-14	AI	2	17	
WFS 1 Channel 1 Q +	green	R	EL3104	7	+11	AI	2	5	
WFS 1 Channel 1 Q -	white	R	EL3104	7	-11	AI	2	18	
WFS 1 Channel 1 I +	green	R	EL3104	7	+12	AI	2	6	
WFS 1 Channel 1 I -	white	R	EL3104	7	-12	AI	2	19	
WFS 1 Channel 2 Q +	green	R	EL3104	7	+13	AI	2	7	
WFS 1 Channel 2 Q -	white	R	EL3104	7	-13	AI	2	20	
WFS 1 Channel 2 I +	green	R	EL3104	7	+14	AI	2	8	
WFS 1 Channel 2 I -	white	R	EL3104	7	-14	AI	2	21	
WFS 1 Channel 1 DC +	green	R	EL3104	8	+11	AI	2	9	
WFS 1 Channel 1 DC -	white	R	EL3104	8	-11	AI	2	22	
WFS 1 Channel 2 DC +	green	R	EL3104	8	+12	AI	2	10	
WFS 1 Channel 2 DC -	white	R	EL3104	8	-12	AI	2	23	
WFS 1 Channel 3 DC +	green	R	EL3104	8	+13	AI	2	11	
WFS 1 Channel 3 DC -	white	R	EL3104	8	-13	AI	2	24	
WFS 1 Channel 4 DC +	green	R	EL3104	8	+14	AI	2	12	
WFS 1 Channel 4 DC -	white	R	EL3104	8	-14	AI	2	25	
5VRET_2	black	R	EL9190	9	-	P	3	13	
WFS 1 Channel 1 Q +	green	R	EL3104	10	+11	AI	3	1	
WFS 1 Channel 1 Q -	white	R	EL3104	10	-11	AI	3	14	
WFS 1 Channel 1 I +	green	R	EL3104	10	+12	AI	3	2	
WFS 1 Channel 1 I -	white	R	EL3104	10	-12	AI	3	15	
WFS 1 Channel 2 Q +	green	R	EL3104	10	+13	AI	3	3	
WFS 1 Channel 2 Q -	white	R	EL3104	10	-13	AI	3	16	
WFS 1 Channel 2 I +	green	R	EL3104	10	+14	AI	3	4	
WFS 1 Channel 2 I -	white	R	EL3104	10	-14	AI	3	17	
WFS 1 Channel 1 Q +	green	R	EL3104	11	+11	AI	3	5	
WFS 1 Channel 1 Q -	white	R	EL3104	11	-11	AI	3	18	
WFS 1 Channel 1 I +	green	R	EL3104	11	+12	AI	3	6	
WFS 1 Channel 1 I -	white	R	EL3104	11	-12	AI	3	19	
WFS 1 Channel 2 Q +	green	R	EL3104	11	+13	AI	3	7	
WFS 1 Channel 2 Q -	white	R	EL3104	11	-13	AI	3	20	
WFS 1 Channel 2 I +	green	R	EL3104	11	+14	AI	3	8	
WFS 1 Channel 2 I -	white	R	EL3104	11	-14	AI	3	21	
WFS 1 Channel 1 DC +	green	R	EL3104	12	+11	AI	3	9	
WFS 1 Channel 1 DC -	white	R	EL3104	12	-11	AI	3	22	

WFS 1 Channel 2 DC +	green	R	EL3104	12	+12	AI	3	10
WFS 1 Channel 2 DC -	white	R	EL3104	12	-12	AI	3	23
WFS 1 Channel 3 DC +	green	R	EL3104	12	+13	AI	3	11
WFS 1 Channel 3 DC -	white	R	EL3104	12	-13	AI	3	24
WFS 1 Channel 4 DC +	green	R	EL3104	12	+14	AI	3	12
WFS 1 Channel 4 DC -	white	R	EL3104	12	-14	AI	3	25