



PN1
EtherCAT chassis
LIGO
D0902552-v1

PN4
Name Plate
LIGO
D0902589-v1-B

PN2
Ethernet patch cable

PN3
Ethernet patch cable

PN5
Ethernet patch cable

PN6
Ethernet patch cable
Newark
21M5658

Slots

1	2	3	4	5	6	7	8
PN7 Adapter panel LIGO D0902557-v1	PN8 Adapter panel LIGO D0902587-v1-A	PN9 Adapter panel LIGO D0902587-v1-B	PN10 Adapter panel LIGO D0902588-v1	PN11 Adapter panel LIGO D0902586-v1-A1	PN12 Adapter panel LIGO D0902586-v1-A2	PN13 Adapter panel LIGO D0902586-v1-B1	PN14 Adapter panel LIGO D0902586-v1-B2
	PN15 DB25F adapter LIGO D0902568-v1	PN16 DB25F adapter LIGO D0902568-v1	PN17 DB25M adapter LIGO D0902567-v1	PN18 DB37M adapter LIGO D0902569-v1	PN19 DB37M adapter LIGO D0902569-v1	PN20 DB37M adapter LIGO D0902569-v1	PN21 DB37M adapter LIGO D0902569-v1
	E1 #6-32 1/4" flat E8 #6-32 1/4" flat McMaster-Carr 91099A205	E2 #6-32 1/4" flat E9 #6-32 1/4" flat McMaster-Carr 91099A205	E3 #6-32 1/4" flat E10 #6-32 1/4" flat McMaster-Carr 91099A205	E4 #6-32 1/4" flat E11 #6-32 1/4" flat McMaster-Carr 91099A205	E5 #6-32 1/4" flat E12 #6-32 1/4" flat McMaster-Carr 91099A205	E6 #6-32 1/4" flat E13 #6-32 1/4" flat McMaster-Carr 91099A205	E7 #6-32 1/4" flat E14 #6-32 1/4" flat McMaster-Carr 91099A205

Blank Delay A Delay B TTFSS CM A/1 CM A/2 CM B/1 CM B/2

Title		Squeezer Controls Chassis B	
Size	Number	Revision	
B	D0902579	A	
Date:	4/3/2010	Sheet 1 of 4	
File:	C:\Users\...\CtrlChassisB1.SchDoc	Drawn By:	Daniel Sigg

B1
5V/0.6A isolated DC-DC converter, Omron S82S-7305

B2
EK1101
Beckhoff EtherCAT coupler w/ ID switch

B3
EL3102
2-channel analog input terminals, differential, 16 bits

B4
EL3102
2-channel analog input terminals, differential, 16 bits

B5
EL3102
2-channel analog input terminals, differential, 16 bits

B6
EL4132
2-channel analog output terminals, differential, 16 bits

B7
EL4132
2-channel analog output terminals, differential, 16 bits

B8
EL9400
Power supply terminals for E-bus

B9
EL1124
4-channel digital input terminals, 5V

B10
EL2124
4-channel digital output terminals, 5V

B11
EL2124
4-channel digital output terminals, 5V

B12
EL2124
4-channel digital output terminals, 5V

B13
EL2124
4-channel digital output terminals, 5V

B14
EL2124
4-channel digital output terminals, 5V

B15
EL2124
4-channel digital output terminals, 5V

B16
EL9400
Power supply terminals for E-bus

B17
EL2124
4-channel digital output terminals, 5V

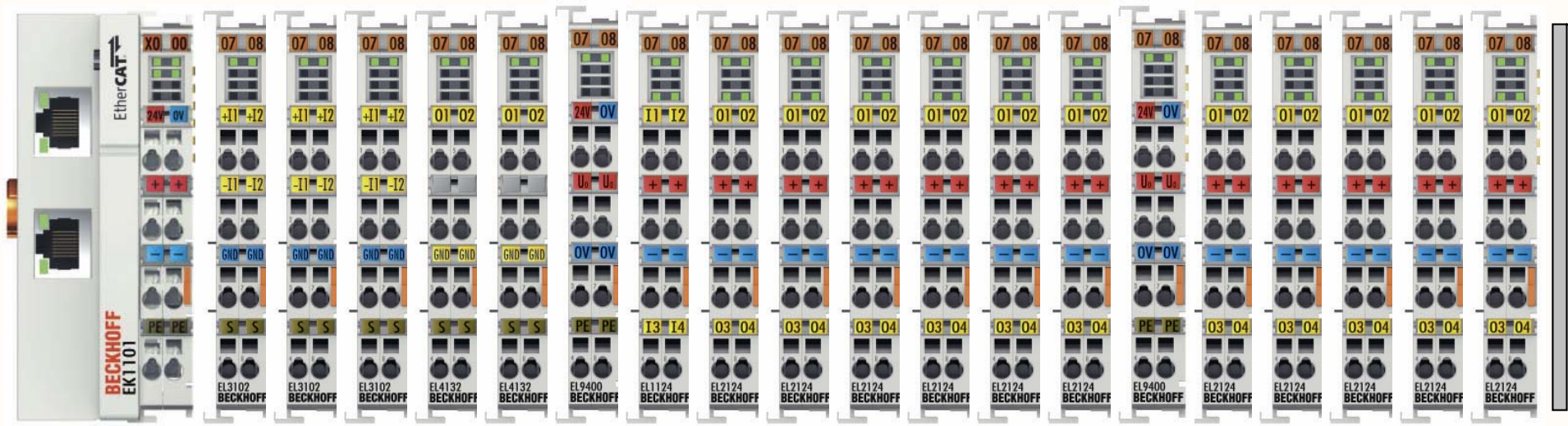
B18
EL2124
4-channel digital output terminals, 5V

B19
EL2124
4-channel digital output terminals, 5V

B20
EL2124
4-channel digital output terminals, 5V

B21
EL2124
4-channel digital output terminals, 5V

B22
EL9011
End cap



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Ebus 24V
Power contacts 24V

24V
5V

24V
5V

Common mode servo B

Title			Control Chassis B: Left Rail		
Size	Number			Revision	
B	D0902579			A	
Date:	4/3/2010	Sheet 2 of 4			
File:	C:\Users\...\CtrlChassisB2.SchDoc	Drawn By: Daniel Sigg			

B23
5V/0.6A isolated DC-DC converter, Omron S82S-7305

B24
EK1100
Beckhoff EtherCAT coupler

B25
EL3102
2-channel analog input terminals, differential, 16 bits

B26
EL3102
2-channel analog input terminals, differential, 16 bits

B27
EL3102
2-channel analog input terminals, differential, 16 bits

B28
EL4132
2-channel analog output terminals, differential, 16 bits

B29
EL4132
2-channel analog output terminals, differential, 16 bits

B30
EL9400
Power supply terminals for E-bus

B31
EL1124
4-channel digital input terminals, 5V

B32
EL2124
4-channel digital output terminals, 5V

B33
EL2124
4-channel digital output terminals, 5V

B34
EL2124
4-channel digital output terminals, 5V

B35
EL2124
4-channel digital output terminals, 5V

B36
EL2124
4-channel digital output terminals, 5V

B37
EL2124
4-channel digital output terminals, 5V

B38
EL9400
Power supply terminals for E-bus

B39
EL2124
4-channel digital output terminals, 5V

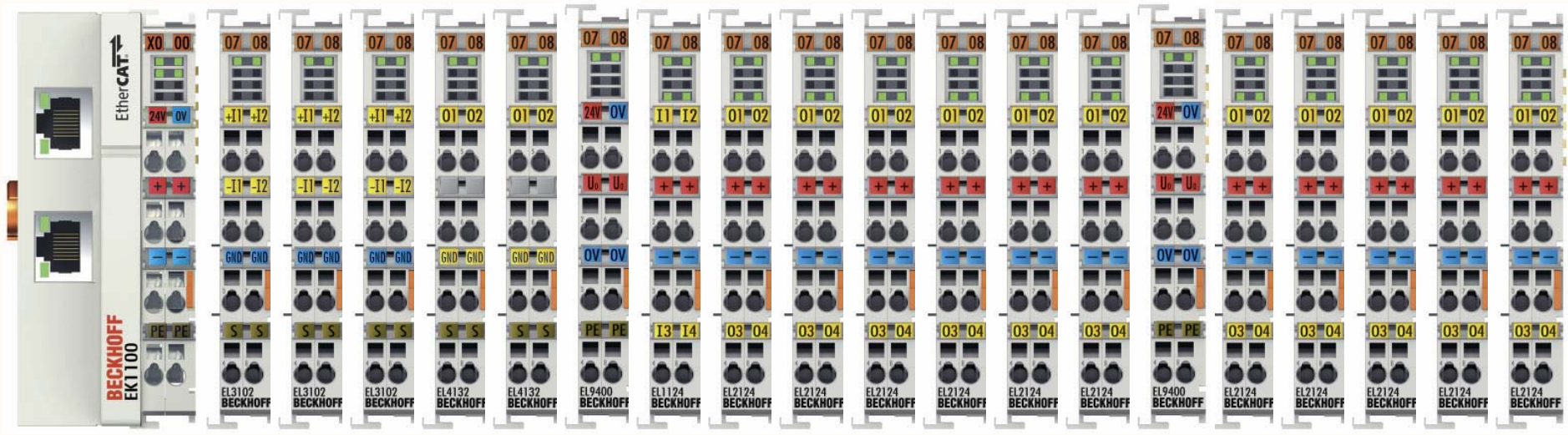
B40
EL2124
4-channel digital output terminals, 5V

B41
EL2124
4-channel digital output terminals, 5V

B42
EL2124
4-channel digital output terminals, 5V

B43
EL2124
4-channel digital output terminals, 5V

B44
EL9011
End cap



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Ebus 24V
Power contacts 24V

24V
5V

Common mode servo A

Title			Control Chassis B: Middle Rail		
Size	Number			Revision	
B	D0902579			A	
Date:	4/3/2010	Sheet 3 of 4			
File:	C:\Users\...\CtrlChassisB3.SchDoc	Drawn By: Daniel Sigg			

B45
5V/0.6A isolated DC-DC converter, Omron S82S-7305

B46
EK1100
Beckhoff EtherCAT coupler

B47
EL3102
2-channel analog input terminals, differential, 16 bits

B48
EL3102
2-channel analog input terminals, differential, 16 bits

B49
EL3102
2-channel analog input terminals, differential, 16 bits

B50
EL4132
2-channel analog output terminals, differential, 16 bits

B51
EL4132
2-channel analog output terminals, differential, 16 bits

B52
EL9400
Power supply terminals for E-bus

B53
EL1124
4-channel digital input terminals, 5V

B54
EL2124
4-channel digital output terminals, 5V

B55
EL2124
4-channel digital output terminals, 5V

B56
EL9190
Feed terminal, arbitrary voltage

B57
EL2124
4-channel digital output terminals, 5V

B58
EL2124
4-channel digital output terminals, 5V

B59
EL2124
4-channel digital output terminals, 5V

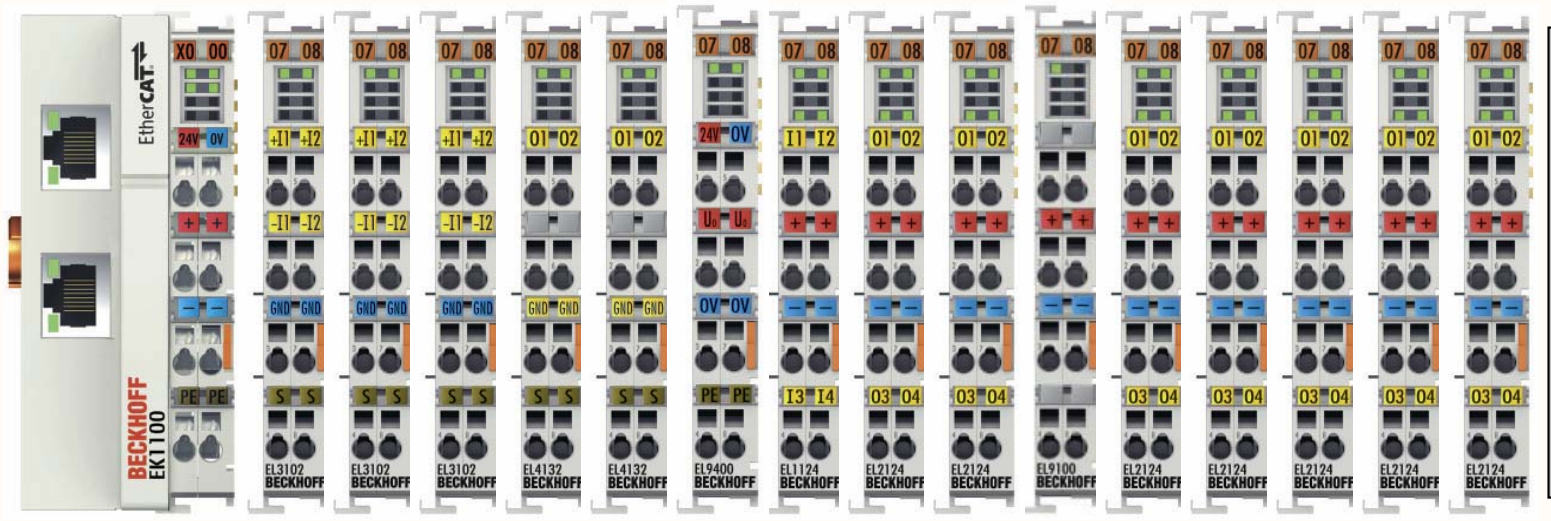
B60
EL2124
4-channel digital output terminals, 5V

B61
EL2124
4-channel digital output terminals, 5V

B62
EL9011
End cap

B63
5V/0.6A isolated DC-DC converter, Omron S82S-7305

B64
24V/4.2A power supply, Sola HD SDP4-24



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Ebus 24V
Power contacts 24V

24V —
5V 5V

Power supply

TTFFS

Delay line phase shifter A/B

Title Control Chassis B: Right Rail		
Size B	Number D0902579	Revision A
Date: 4/3/2010	Sheet 4 of 4	
File: C:\Users\...\CtrlChassisB4.SchDoc	Drawn By: Daniel Sigg	