

Mount the terminal block on spare DIN rail space.
Use the terminal block to distribute the 24V supply.

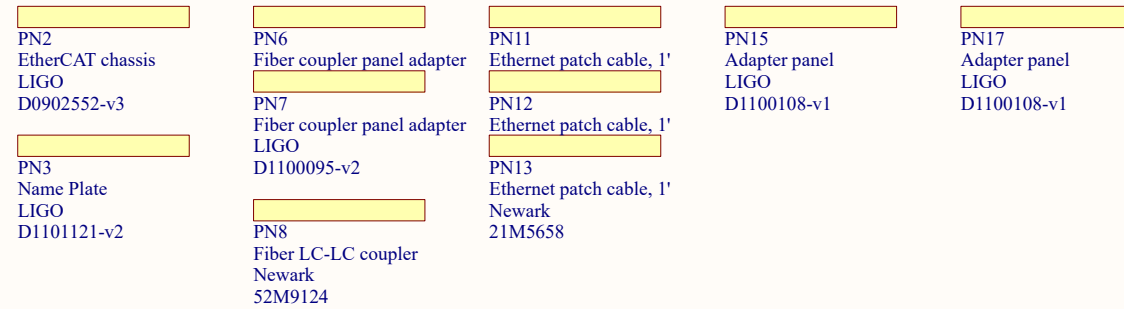
This EtherCAT chassis uses fiber for input and copper for output.
Mount the fiber feedthroughs into the IN front panel.
Using LC-to-SC fiber patch cables:
- Connect the front panel fiber input to the input of the media converter.

Mount the modular adapters to the OUT front panel.
Using CAT5 patch cables:
- Connect the output of the media converter to the input of the coupler on the right rail.
- Connect the output of this coupler to the front panel output.
- Connect the first coupler on the left rail to the X1 port of the EK1122 terminal.
- Connect the second coupler on the left rail to the X2 port of the EK1122 terminal.

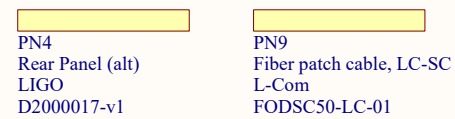
Twist power supply cable pair for motor supply, and wind around toroid 10 times.

Ports

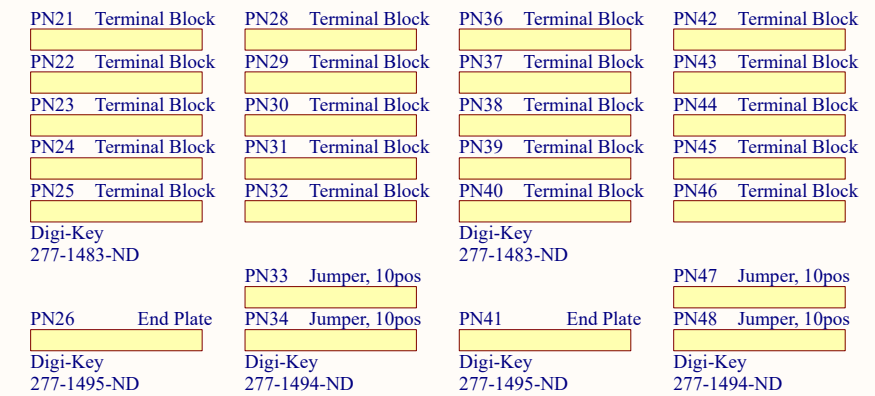
IN OUT 1A 2A



Fiber/LC Corner CAT5 Corner Blank Blank

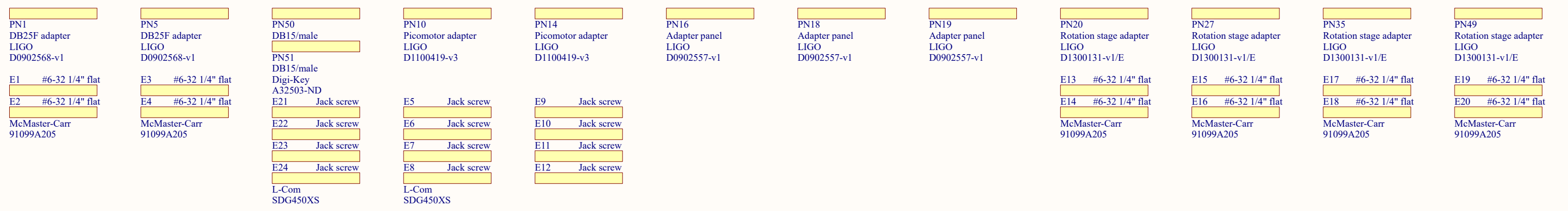


TBLOCK



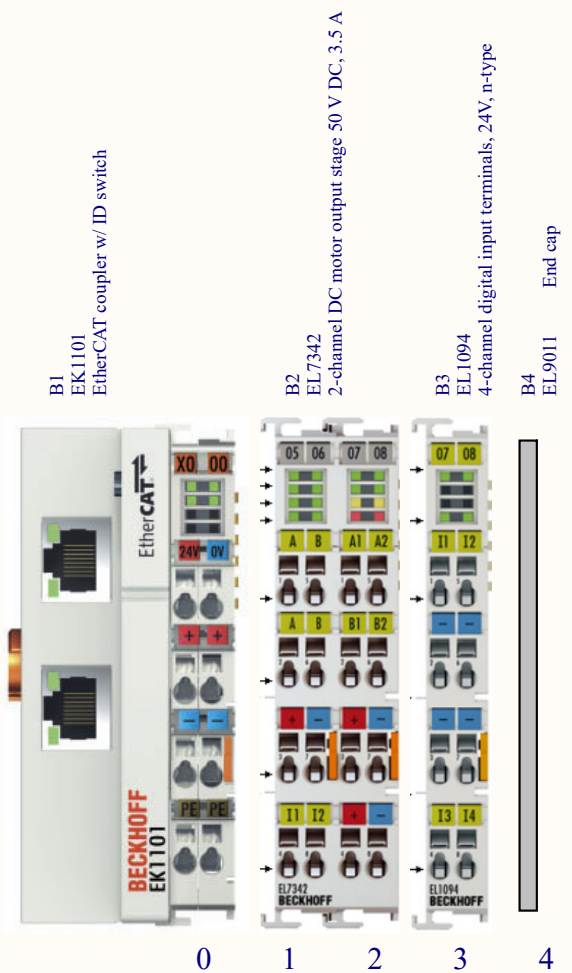
Slots

1 2 3 4 5 6 7 8 9 10 11 12



1: LASER ANTE **2:** DIODE/CHILLER **3:** IO PZT **4:** Picomotor PSL **5:** Picomotor Spare **6:** Blank **7:** Blank **8:** Blank **9:** Spare Rotation Stage **10:** TCS X Rotation Stage **11:** TCS Y Rotation Stage **12:** IO/PSL Rotation Stage

Title PSL/IO/TCS Controls Chassis		
Size B	Number D1101114	Revision 6
Date: 1/31/2020	Sheet 1 4 of	
File: C:\Users\...\PSLControls1.SchDoc	Drawn By: Daniel Sigg	

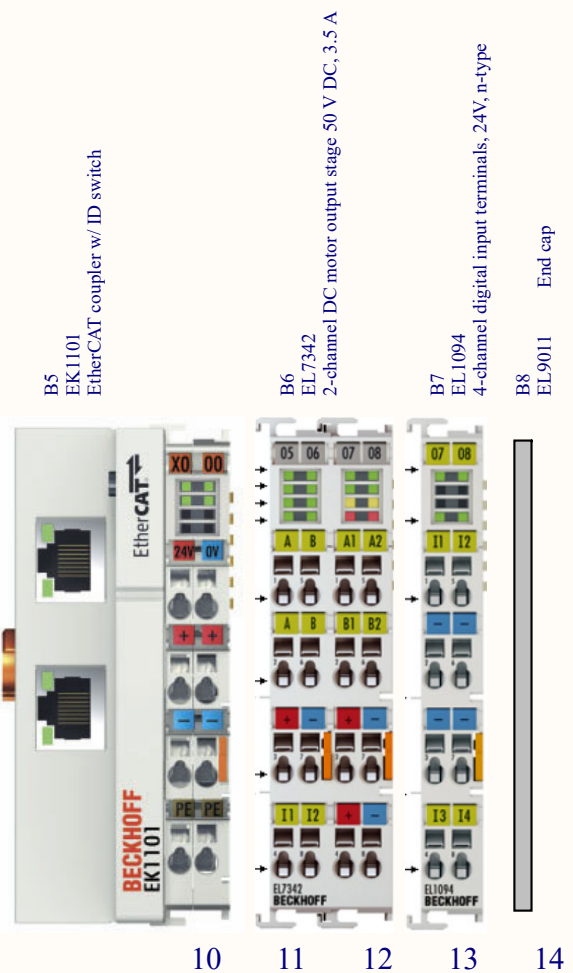


Ebus 24V
Power contacts 24V

Rotation Stage PSL

Power budget:
EL1094: 0.090 A (1x)
EL7342: 0.140 A (1x)

0.230 A



24V
24V

Rotation Stage TCS

Coupler +24V supply voltage wire is connected through relay contacts of EL2612 terminal.
PSL rotation stage on relay contact 1 NC.
TCS rotation stage on relay contact 2 NC.



24V

Media Converter

Media converter needs to be mounted sideways to prevent fiber from bending too fast.
The rotary switch needs to be set to 0.

Title P/I/T Controls Chassis: Left Rail		
Size B	Number D1101114	Revision 6
Date: 1/31/2020	Sheet 2 4 of	Drawn By: Daniel Sigg
File: C:\Users\...\PSLControls2.SchDoc		

1

2

3

4

5

6

A

A

B

B

C

C

D

D

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Ebus	24V						24V								24V						
Power contacts	24V						5V								5V						

Spare

Title			P/I/T Controls Chassis: Middle Rail		
Size	Number	Revision			
B	D1101114	6			
Date:	1/31/2020	Sheet 3	4 of		
File:	C:\Users\...\PSLControls3.SchDoc	Drawn By:	Daniel Sigg		

1

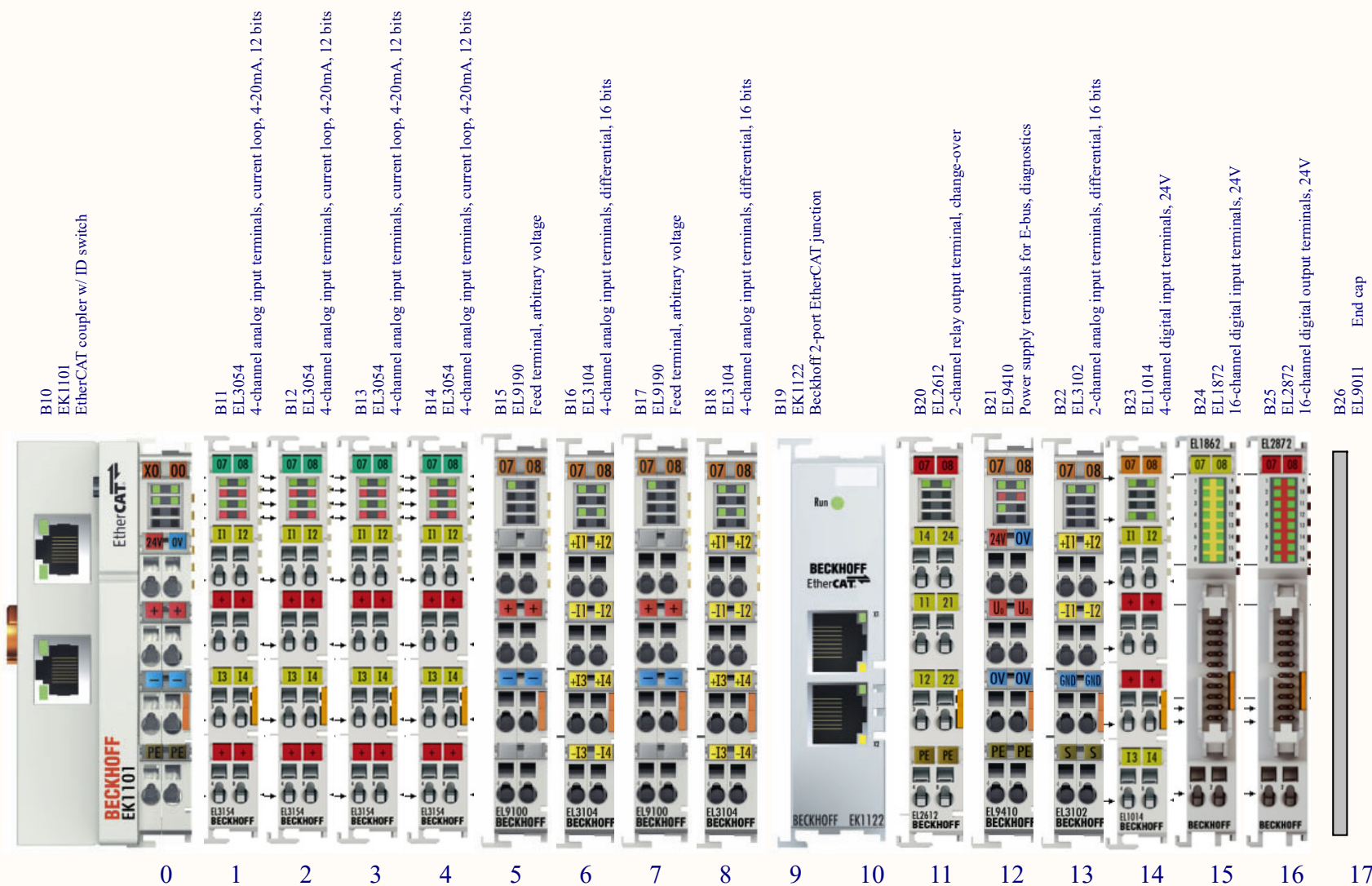
2

3

4

5

6



Ebus	24V	—	—	24V
Power contacts	24V	—	—	24V

Environmental

Power budget:	
EL3054:	0.130 A (4x)
EL3104:	0.130 A (2x)
EK1122:	0.220 A
EL2612:	0.150 A

	1.150 A

IO PZT

Rotation Stage Feed

Picomotors

Power budget:	
EL3102:	0.180 A (1x)
EL1014:	0.090 A (1x)
EL1872:	0.130 A (1x)
EL2872:	0.130 A (1x)

	0.530 A

Title P/I/T Controls Chassis: Right Rail		
Size B	Number D1101114	Revision 6
Date:	1/31/2020	Sheet 4 4 of
File:	C:\Users\...\PSLControls4.SchDoc	Drawn By: Daniel Sigg