



Ports

IN OUT 1A 2A

- | | | | | |
|--|--|---|--|--|
|
PN1
EtherCAT chassis
LIGO
D0902552-v3 |
PN4
Ethernet patch cable, 1'

PN5
Ethernet patch cable, 1' |
PN7
Ethernet patch cable, 1'

PN8
Ethernet patch cable, 1'
Newark
21M5658 |
PN10
Adapter panel
LIGO
D1100108-v1 |
PN12
Adapter panel
LIGO
D1100108-v1 |
|
PN2
Name Plate
LIGO
D1400176-v1 | | | | |

CAT5 End CAT5 End Blank Blank

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

This EtherCAT chassis uses copper only.
 Mount the modular adapters to the front panel.
 Mount the terminal block on spare DIN rail space.
 Use the terminal block to distribute the 24V supply.

This EtherCAT chassis uses copper only.
 Mount the modular adapters to the front panel.
 Using CAT5 patch cables:

TBLOCK

- | | | | | | |
|--|--|--|--|---|---|
|
PN17 Terminal Block

PN18 Terminal Block

PN19 Terminal Block

PN20 Terminal Block

PN21 Terminal Block
Digi-Key
277-1483-ND |
PN25 Terminal Block

PN26 Terminal Block

PN27 Terminal Block

PN28 Terminal Block

PN29 Terminal Block
Digi-Key
277-1495-ND |
PN34 Terminal Block

PN35 Terminal Block

PN36 Terminal Block

PN37 Terminal Block

PN38 Terminal Block
Digi-Key
277-1483-ND |
PN40 Terminal Block

PN41 Terminal Block

PN42 Terminal Block

PN43 Terminal Block

PN44 Terminal Block

PN30 Jumper, 10pos

PN31 Jumper, 10pos
Digi-Key
277-1494-ND |
PN39 End Plate
Digi-Key
277-1495-ND |
PN45 Jumper, 10pos

PN46 Jumper, 10pos
Digi-Key
277-1494-ND |
|--|--|--|--|---|---|

Slots

1 2 3 4 5 6 7 8 9

- | | | | | | | | | |
|---|---|---|--|--|--|--|--|--|
|
PN3
Adapter panel
LIGO
D0902557-v1 |
PN6
Adapter panel
LIGO
D0902557-v1 |
PN9
Adapter panel
LIGO
D0902557-v1 |
PN11
Adapter panel
LIGO
D0902557-v1 |
PN13
Adapter panel
LIGO
D0902557-v1 |
PN14
Adapter panel
LIGO
D0902557-v1 |
PN15
Adapter panel
LIGO
D1400245-v1

PN16
DB37M adapter
LIGO
D0902569-v1

E1 #6-32 1/4" flat

E2 #6-32 1/4" flat
McMaster-Carr
91099A205 |
PN23
Adapter panel
LIGO
D1400244-v1

PN24
DB37M adapter
LIGO
D0902569-v1

E3 #6-32 1/4" flat

E4 #6-32 1/4" flat
McMaster-Carr
91099A205 |
PN32
Adapter panel
LIGO
D1400246-v1

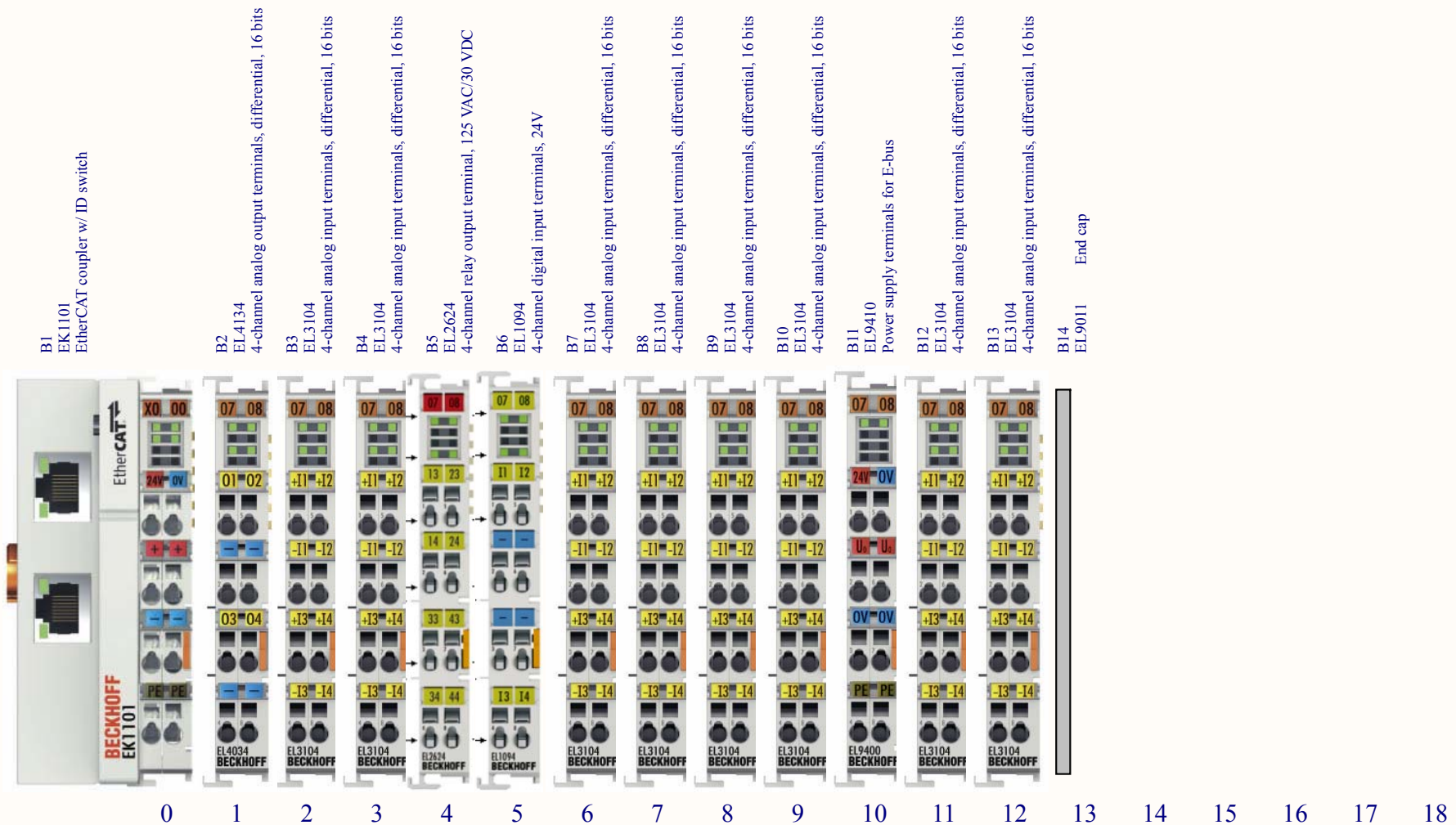
PN33
DB37M adapter
LIGO
D0902569-v1

E5 #6-32 1/4" flat

E6 #6-32 1/4" flat
McMaster-Carr
91099A205 |
|---|---|---|--|--|--|--|--|--|

Blank Blank Blank Blank Blank Blank MCL PZTs ALS WFS Demod Photon Calibrator

Title			EtherCAT End 3		
Size	Number	Revision			
B	D1400175	2			
Date:	7/22/2014	Sheet 1 of 4			
File:	D:\Users\...\EtherCATEndC1.SchDoc	Drawn By: Daniel Sigg			



Ebus 24V
 Power contacts 24V

Photon Calibrator Demod PZT Mirrors

Power budget:
 EL3104: 0.180 A (6x)
 EL4134: 0.265 A (1x)
 EL1094: 0.090 A (1x)
 EL1124: 0.090 A (0x)
 EL2124: 0.130 A (0x)
 EL2624: 0.200 A (1x)

 1.635 A

Power budget:
 EL3104: 0.180 A (2x)
 EL4134: 0.265 A (0x)
 EL1094: 0.090 A (0x)
 EL1124: 0.090 A (0x)
 EL2124: 0.130 A (0x)
 EL2624: 0.200 A (0x)

 0.360 A

Title EtherCAT End 3: Left Rail		
Size B	Number D1400175	Revision 2
Date:	7/22/2014	Sheet 2 of 4
File:	D:\Users\...\EtherCATEndC2.SchDoc	Drawn By: Daniel Sigg

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 21 22

Ebus
Power contacts

24V

—

TBD



Title		EtherCAT End 3: Middle Rail	
Size	Number	Revision	
B	D1400175	2	
Date:	7/22/2014	Sheet 3 of 4	
File:	D:\Users\...\EtherCATEndC3.SchDoc	Drawn By: Daniel Sigg	

1

2

3

4

5

6

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 21 22

Ebus 24V

Power contacts 24V

TBD



Title		EtherCAT End 3: Right Rail	
Size	Number	Revision	
B	D1400175	2	
Date:	7/22/2014	Sheet 4 of 4	
File:	D:\Users\...\EtherCATEndC4.SchDoc	Drawn By: Daniel Sigg	

1

2

3

4

5

6