

Full hardware handshaking required for Galil controller

Part # DMC-4080(ISCNTL)-C012(P422)-I200(SSL,STEP)-I200(SSL,STEP)-D4040-D4040

GALIL DMC 4080

X-AXIS GUIDER 1

MOTOR A

P1 "X"
ENCODER INPUT A
US DIGITAL ENCODER

P1 X-LIMITS

Y-AXIS GUIDER 1

MOTOR B

P1 "Y"
ENCODER INPUT B
US DIGITAL ENCODER

P1 Y-LIMITS

GUIDER 1 FOCUS
MOTOR C

P1 FOCUS
LIMITS

FILTER WHEEL 1
MOTOR D

FILTER WHEEL 1
ENCODER INPUT D

FILTER WHEEL 1
DETENTS

LED CONTROL

S-H LENSLET 1
CONTROL

PROBE 1

TMG 5609L-0502 400 steps/rev NEMA 23 stepper

P1 "X"
STEPPER #1

US Digital E2 relative
P1 "X" ENCODER

Panasonic SUNX Proximity Sensor GX-N12F

TMG 5609L-0502 400 steps/rev NEMA 23 stepper

P1 "Y"
STEPPER #2

US Digital E2 relative
P1 "Y" ENCODER

Panasonic SUNX Proximity Sensor GX-N12F

FOCUS MOTOR 1

Haydon/Kerk Hybrid Linear Actuator Size NEMA 23 : 57J47-05-003ENG

STEPPER #3

Panasonic SUNX Proximity Sensor GX-N12F

FILTER WHEEL 1 - SIX POSITIONS

TMG 5609L-0502 Hybrid Stepper Motor

STEPPER #4

BEI-HS35F SSI Absolute Encoder
FILTER WHEEL 1 ENCODER

Detent A microswitch Honeywell 311SM4-T

Detent B microswitch Honeywell 311SM4-T

R7
Res 1K
LED1

IMB AIR CYLINDER
IMB AIR CYLINDER
IMB AIR CYLINDER

GALIL DMC 4080

X-AXIS GUIDER 2

MOTOR E

P2 "X"
ENCODER INPUT E
US DIGITAL ENCODER

P2 X-LIMITS

Y-AXIS GUIDER 2

MOTOR F

P2 "Y"
ENCODER INPUT F
US DIGITAL ENCODER

P2 Y-LIMITS

GUIDER 2 FOCUS
MOTOR G

P2 FOCUS
LIMITS

FILTER WHEEL 2
MOTOR H

FILTER WHEEL 2
ENCODER INPUT H

FILTER WHEEL 2
DETENTS

LED CONTROL

S-H LENSLET 1
CONTROL

PROBE 2

TMG 5609L-0502 400 steps/rev NEMA 23 stepper

P2 "X"
STEPPER #5

US Digital E2 relative
P2 "X" ENCODER

Panasonic SUNX Proximity Sensor GX-N12F

TMG 5609L-0502 400 steps/rev NEMA 23 stepper

P2 "Y"
STEPPER #6

US Digital E2 relative
P2 "Y" ENCODER

Panasonic SUNX Proximity Sensor GX-N12F

FOCUS MOTOR 2

Haydon/Kerk Hybrid Linear Actuator Size NEMA 23 : 57J47-05-003ENG

STEPPER #7

Panasonic SUNX Proximity Sensor GX-N12F

FILTER WHEEL 2 - SIX POSITIONS

TMG 5609L-0502 Hybrid Stepper Motor

STEPPER #8

BEI-HS35F SSI Absolute Encoder
FILTER WHEEL 2 ENCODER

Detent A microswitch Honeywell 311SM4-T

Detent B microswitch Honeywell 311SM4-T

R7
Res 1K
LED1

IMB AIR CYLINDER
IMB AIR CYLINDER
IMB AIR CYLINDER

Carnegie Institution of Washington

The Observatories
813 Santa Barbara Street
Pasadena, California 91101

PHONE (626) 577-1122 FAX (626) 795-8136

OCIW

Title: C40 TELESCOPE CONTROLS UPGRADE

Size: D Scale: Drawn By: alab F PEREZ Revision: A

Date: 11/9/2012 12:49:21 PM Checked By: A. BAGSH Sheet 2 of 7

File: D:\alab\OCIW work\Sept 20 2012\SC-40\upgrades\C40_IMB_2nd level_Block Diagram_SchDoc