Title:
ACORN_rev3 CONNECTIONS TO GECKO G201 STEPPER DRIVE

PLC Program: acorn-mill-universal.src

Date: 171221 | Drawn by: CEM

Filename: | Sheet 1 of 1

How to tell the difference between Acorn_rev2 and Acorn_rev3
Acorn_rev2 has FIXED green screw terminal blocks
Acorn_rev3 has REMOVABLE gree screw terminal blocks

GECKODRIVE
G201 10u STEP DRIVE

POWER GND
+24 TO 80VDC
PHASE A
PHASE B
PHASE C
PHASE D
DISABLE
DIR
STEP
COMMON
CURRNET SET
CURRNET SET

24 TO 80 VDC
MOTOR CABLE
DISABLE
GECKO COMMON
E-STOP SIGNAL

E-STOP SWITCH
(NORMALLY CLOSED)
24V COM
+5VDC
+5VDC

OPTIONAL NORMALLY OPEN CONTACT BLOCK FOR DRIVE DISABLE SIGNAL

+V (+5 VDC)
-V (5V COM)
OUTPUT +5 VDC 1 AMP
L
N
110VAC
+5VDC
5V COM

USER SUPPLIED 5VDC POWER SUPPLY

DIRECTION
STEP

OPTIONAL LIMIT SWITCHES

DRIVE OK
PROBE DETECT
PROBE SIGNAL
E-STOP SIGNAL

H1
IN5
IN6
IN7
IN8
24 IN

H2
ST1 STEP
DR1 DIRECTION
EN1
COM
ST2
DR2
EN2
COM

H3
ST3
DR3
EN3
COM
ST4
DR4
EN4
COM

H4
+24VDC
24 IN
4TH HOME/LIMIT SWITCH
3RD HOME/LIMIT SWITCH
2ND HOME/LIMIT SWITCH
1ST HOME/LIMIT SWITCH
IN4
IN3
IN2
IN1

H6
COM
Input 4
Input 3
Input 2
Input 1
Direction 4
Step 4
Direction 3
Step 3
Direction 2
Step 2
Direction 1
Step 1
Output 1
Output 4
Output 3
Input 5
Output 2
Chassis GND

P10
PIN 9 = +5VDC
PIN 8 = B
PIN 7 = A
PIN 6 = Z
PIN 5 = B\
PIN 4 = A\
PIN 3 = Z\
PIN 2 = COM
PIN 1 = N/C

FROM SPINDLE ENCODER

H8
AN GND
AN OUT
VFD/0-10VDC COM
VFD/0-10VDC

ETHERNET
SHIELDED ETHERNET CABLE FROM PC

24V COM
+24VDC

ACORN
REV 171025
PN:14445

H5
COM
OC8 CLAMP ON RELAY COIL/V-
OC7 FLOOD RELAY COIL/V-
COM VFD/COMMON
OC6 VFD/RESET
OC5 VFD/SPIN REVERSE
COM
OC4 VFD/SPIN FORWARD
OC3 SPINDLE BRAKE RELEASE RELAY/V-

NC2
NO2
RL2
NC1
NO1
RL1
H7

H9
CHASSIS
COM
COM
+24VDC
+24VDC

BLK
YEL
GRN
GRN OR GRN/YEL
BLK OR BRN
WHT OR BLU

-V (24V COM)
+V (+24 VDC)
OUTPUT +24 VDC 1.1 AMP
L
N
MEANWELL S-25-24

110VAC

E-STOP CIRCUITS ARE RED
OPTIONAL CONNECTIONS ARE BLUE
GROUNDS ARE GREEN
110VAC IS VIOLET