











EZCTRL ACESSORIES AND OTHER ELECTRICAL NOTES

MATING CONNECTORS:

AMP MTA 100 SERIES 4PIN 22 GA, AMP PART 3-643813-4 8PIN 22 GA, AMP PART 3-643813-8 8PIN 26 GA, AMP PART 3-643814-8 T HANDLE CRIMP TOOL DIGIKEY P/N A9982 PISTOL GRIP TOOL DIGIKEY P/N A1998 + A2031

OPTO HOME SWITCH:

6) ALL INPUTS ARE 3.3V MAX

- 1) "Z" OR HOME COMMAND RUNS MOTOR UNTIL OPTO #1 IS ON FLAG EDGE.
- 2) AN OPTO SWITCH PROVIDED WITH EACH STARTER KIT
- 3) USE TRANSISTOR OPTO THAT HAS IC > 1mA $\,$ 0 $\,$ IF = 20mA.
- 4) EXAMPLES OF ACCEPTABLE OPTOS ARE:

DIGIKEY P/N QVA11134 DIGIKEY P/N H21A1 HONEYWELL HOA1887-012 (IS PREWIRED) HONEYWELL HOA1870-33 (IS PREWIRED) OPTEK OPB830W11 (IS PREWIRED)

5) THE OPTO COUPLER LED PIN HAS 200 OHM TO 5V IN SERIES ON THE BOARD. THE 150 OHM CAN BE REMOVED IF DESIRED FOR RUNNING SENSORS THAT REQUIRE DIRECT ACESS TO 5V. THE COLLECTOR OF THE TRANSISTOR HAS A 10K PULLUP TO 5V.



ON/OFF DRIVERS ALTERNATE WIRING DIAGRAM

1) ON/OFF DRIVERS RATED AT 0.7A / 2A AMPS.

2) THE NEGATIVE PIN OF THESE DRIVERS IS ACTUALLY AN OPEN COLLECTOR TYPE OUTPUT THAT PULLS DOWN TO GROUND. IT IS POSSIBLE TO DRIVE LOADS THAT ARE OF A DIFFERENT VOLTAGE THAN THE SUPPLY VOLTAGE, BY CONNECTING THE POSITIVE SIDE OF THE LOAD TO AN EXTERNAL SUPPLY, AND THE NEGATIVE SIDE TO THE -VE OUTPUT PIN. HOWEVER, IN CASE THIS IS DONE IT IS NECESSARY TO PLACE AN EXTERNAL "FREE WHEELING" DIODE ACROSS ANY INDUCTIVE LOADS. EXTERNAL SUPPLY VOLTAGE MUST BE LESS THAN SUPPLY VOLTAGE TO EZ STEPPER

3) EXTERNAL DIODE IS NOT NECESSARY IF BOTH SIDES OF LOAD ARE WIRED BACK TO THE EZ STEPPER.

1 AMP ON/OFF DRIVER #1 -

1 AMP ON/OFF DRIVER #1 +

EZ CONTROLLER WIRING DIAGRAM

Sheet

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SOLENOID, DC MOTOR ETC

ON/OFF DRIVERS ALTERNATE WIRING DIAGRAM

EXTERNAL +VE SUPPLY

DIODE

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ALL MOTION COM

Document Number

EZ CTRL WIRING

Monday, October 26, 2009

EXTERNAL SUPPLY VOLTAGE MUST BE LESS THAN SUPPLY TO EZ STEPPER

SUITABLE POWER SUPPLIES:

1) FOR FIRST TIME USERS, TO GUARD AGAINST A POSSIBLE MISWIRE, A CURRENT LIMITED LAB SUPPLY SET TO 12V AND 0.5A IS RECOMMENDED.

2) A SUPPLY OF 24V AND 2A CAPABILITY IS GOOD FOR MOST PURPOSES. POSSIBLE CHOICES ARE: DIGIKEY P/N 271-1112 DIGIKEY P/N Z1158 (ENCLOSED)

SEE NEXT PAGE FOR DIMENSIONAL INFO

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