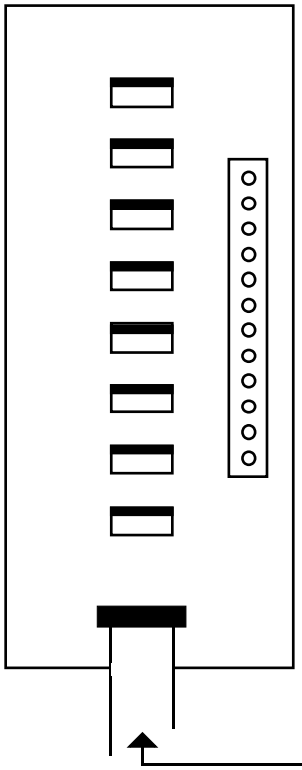
RYD-8 RELAY DRIVER CARD



(1) RELAY COIL #1*
(2) RELAY COIL #2*
(3) RELAY COIL #3*
(4) RELAY COIL #4*
(5) RELAY COIL #5*
(6) RELAY COIL #6*
(7) RELAY COIL #7*
(8) RELAY COIL #8*
(9) RELAY COIL COMMON*
(10) RELAY COIL COMMON*
(11) (+) RELAY COIL POWER SUPPLY*
(12) (-) RELAY COIL POWER SUPPLY*

*OR DEVICE TO BE CONNECTED

CAUTION: REVERSED POLARITY AT RYD-8 TERMINALS 11 & 12 WILL CAUSE DAMAGE!

Please contact Tech Support at (937) 349-6000 for more information.

Ribbon Cable to AR-16 or EX-16 Relay Output Port

SPECIFICATIONS RYD-8 RELAY DRIVER CARD

Size..... 2.25" by 4.875"
Weight..... 2.5 ounces
Relay Outputs..... 8
Maximum current rating..... 3 amp (requires heat sinks above 1.5 amps or 30 watts) 60 watts max
Input voltage range..... 5 to 48 volts DC (voltage must match relay coil requirement)
Ribbon cable length..... 15 inches
For use with..... AR-16, AR-8MF, AR-12MF, EX-8M, EXM, EX-16 and EX-32

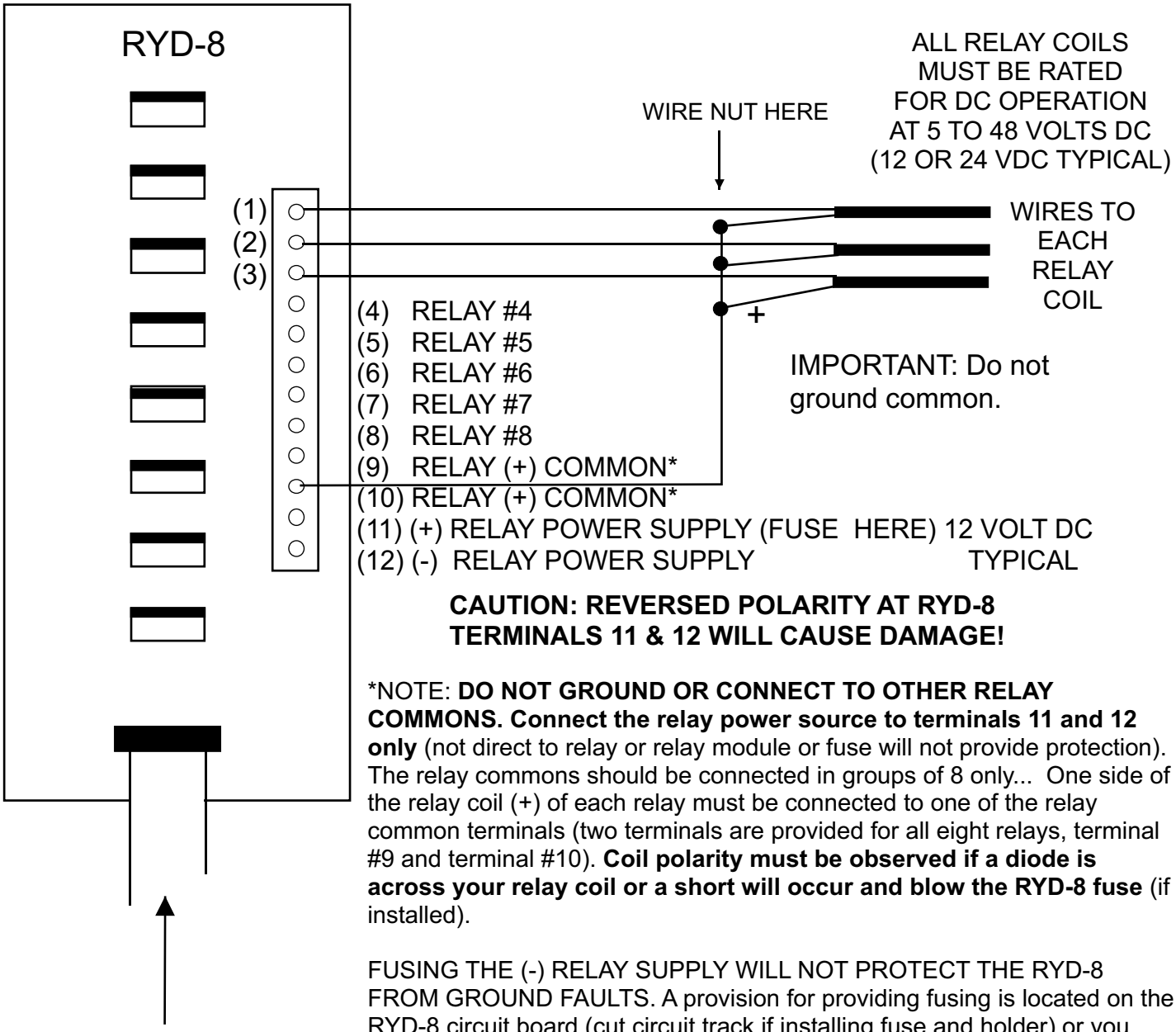
One side of the relay coil (+) of each relay must be connected to one of the relay common terminals (two terminals are provided for all eight relays, terminal #9 and terminal #10). Coil polarity must be observed if a diode is across your relay coil or a short will occur and blow the RYD-8 fuse (if installed).

ALL EIGHT RELAY COILS (or connected device) MUST OPERATE AT THE SAME VOLTAGE.

NOTE: When opto-isolators are installed on the relay control product, a separate isolated power supply should be used for the power input to the RYD-8 to power the relay coils or other devices. Failure to use an isolated power supply will defeat the purpose of the opto-isolators. The isolation allows you to connect relay coils of different votages for other RYD-8 cards connected to the same system (in groups of 8) in addition to the safety provided by the isolation.

Click to see photo: www.eeci.com/ryd-8p.htm

APPLICATION REFERENCE
RYD-8 Relay Driver Card



CAUTION: REVERSED POLARITY AT RYD-8 TERMINALS 11 & 12 WILL CAUSE DAMAGE!

*NOTE: **DO NOT GROUND OR CONNECT TO OTHER RELAY COMMONS. Connect the relay power source to terminals 11 and 12 only** (not direct to relay or relay module or fuse will not provide protection). The relay commons should be connected in groups of 8 only... One side of the relay coil (+) of each relay must be connected to one of the relay common terminals (two terminals are provided for all eight relays, terminal #9 and terminal #10). **Coil polarity must be observed if a diode is across your relay coil or a short will occur and blow the RYD-8 fuse** (if installed).

FUSING THE (-) RELAY SUPPLY WILL NOT PROTECT THE RYD-8 FROM GROUND FAULTS. A provision for providing fusing is located on the RYD-8 circuit board (cut circuit track if installing fuse and holder) or you may order the RYD-8 with fusing installed.

It is highly recommended that you connect the RYD-8 to the AR-16, EX-16 or EX-32 that have the opto isolator option installed (AR-16/C or EX-16/C). This will protect your electronics from damage in the event of incorrect wiring (keep in mind that if opto isolators are not installed, the RYD-8 will be connected to an earth ground through the ribbon cable and through the RS-232 signal ground which is connected to ground with the third prong on your desktop AC cord). The EX-8M and EXM relay expansion modules are provided with opto isolators.

Call (937) 349-6000 for free Technical Support

Electronic Energy Control Inc
www.eeci.com