

## Aleko AR 1450 to CP-4 Wiring Diagram

Terminal 15 on the Control Board

12V – Red Wire

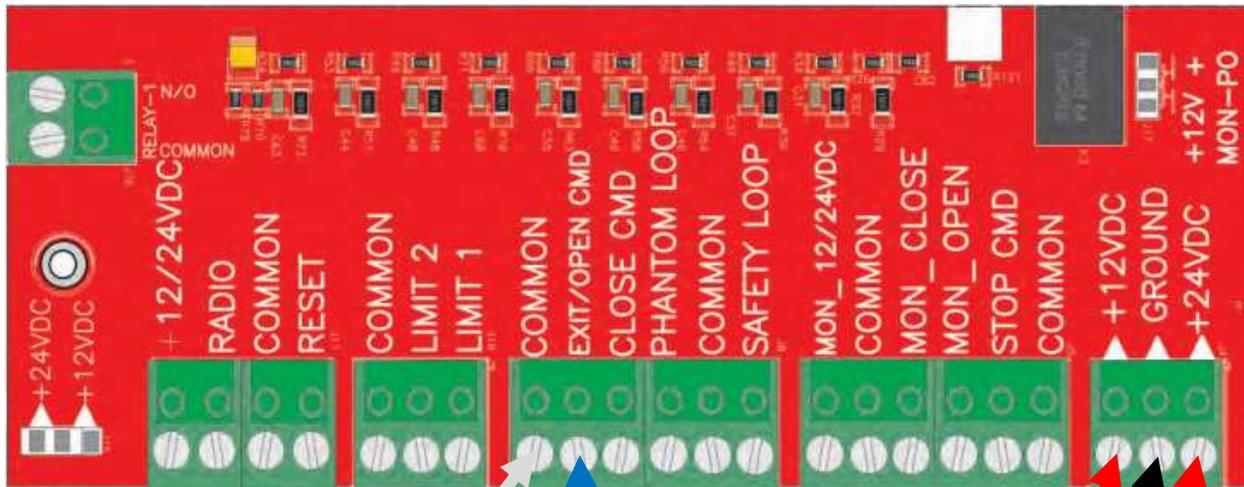
CO (Common) – White and Black Wire

DET (Detection) – Blue Wire

# All-O-Matic SW-300DC, SW-325DC, & SW-350DC

## How to wire up to a CP-4

Wire the CP-4 to the All-O-Matic board as follows:



White Wire

Blue Wire

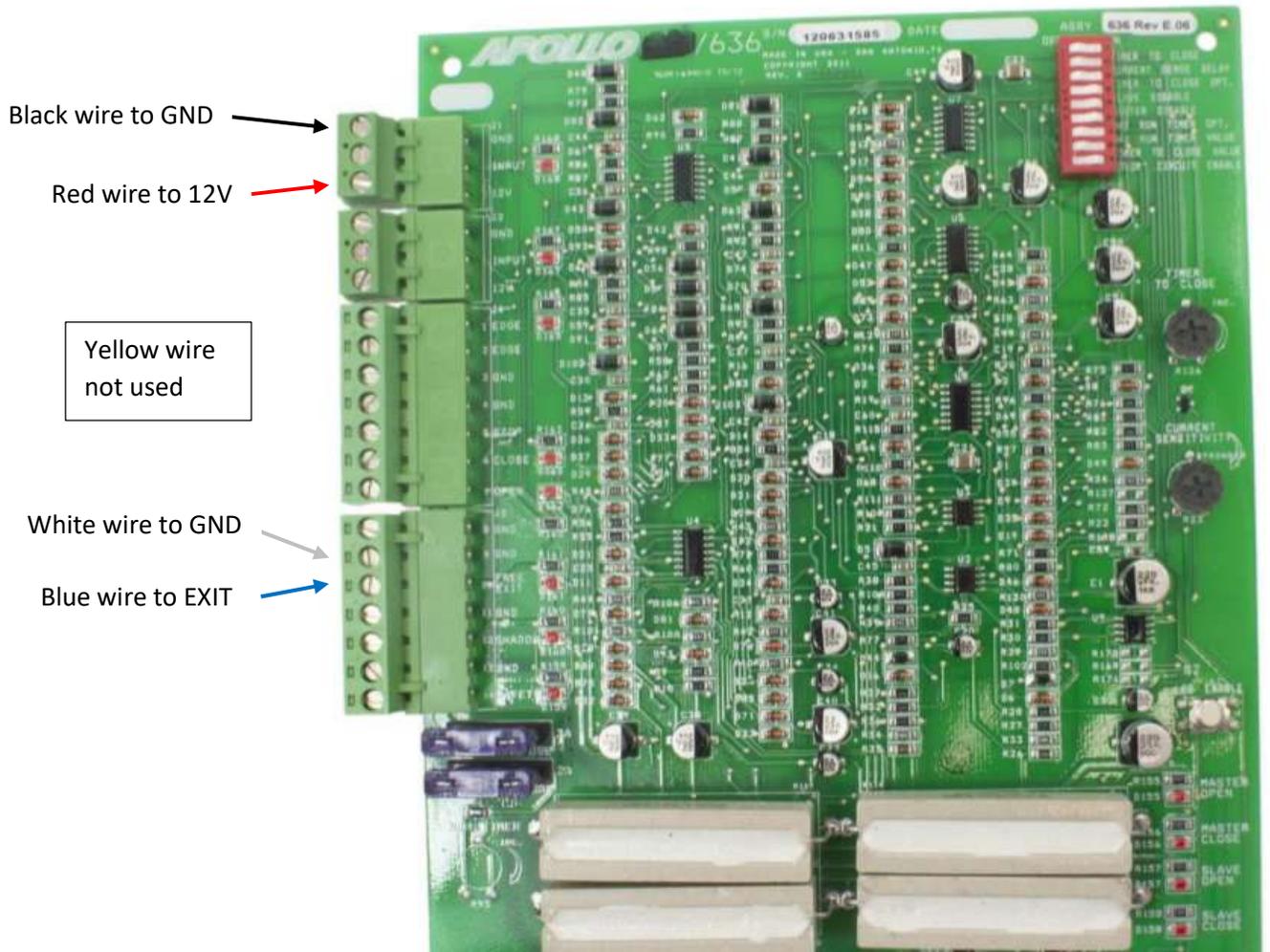
Black Wire

Can use +12VDC or +24VDC

**DO NOT** Connect to both!!  
Connect **Red** wire to 1 of  
the 2 terminals.

**Yellow** Wire is not needed for this operator.

Apollo 635/636 Control Board Wiring for CP-4:



# Nice 936 Control Board

Vehicular Gate Control Board

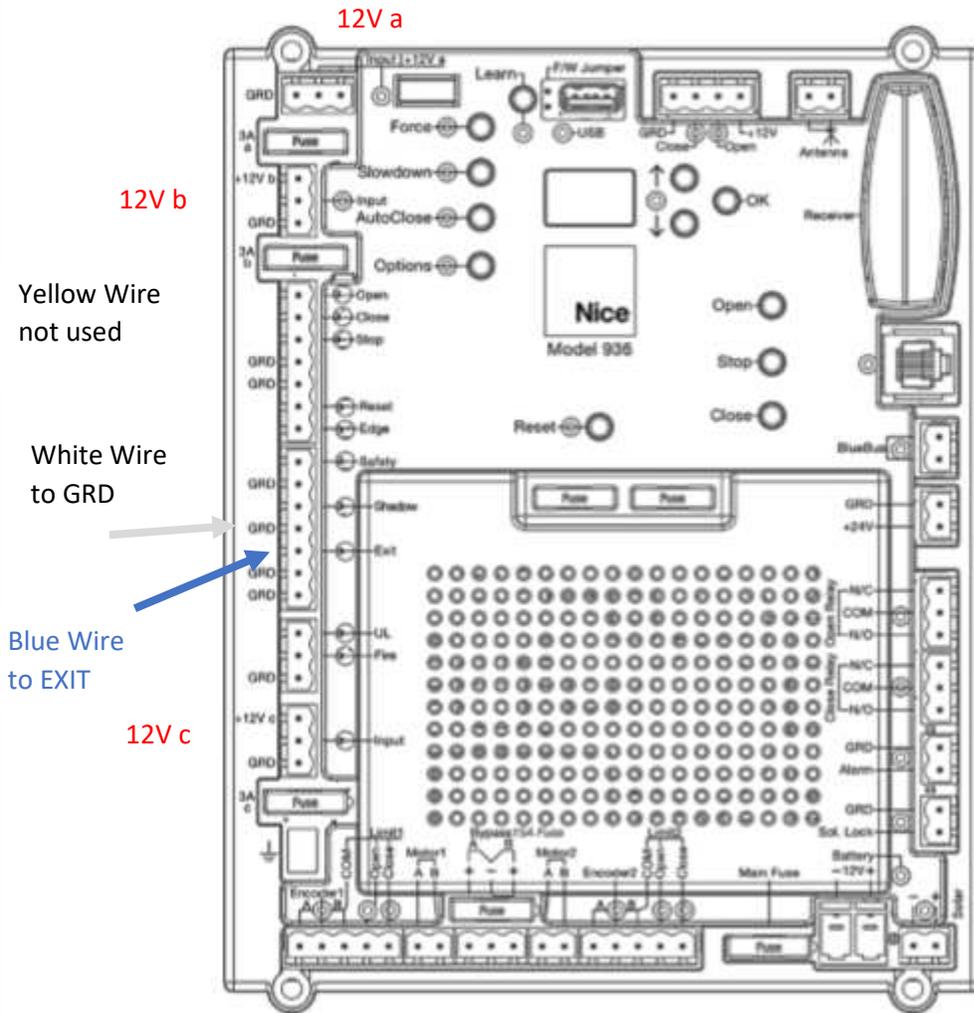
CP-4

Connections



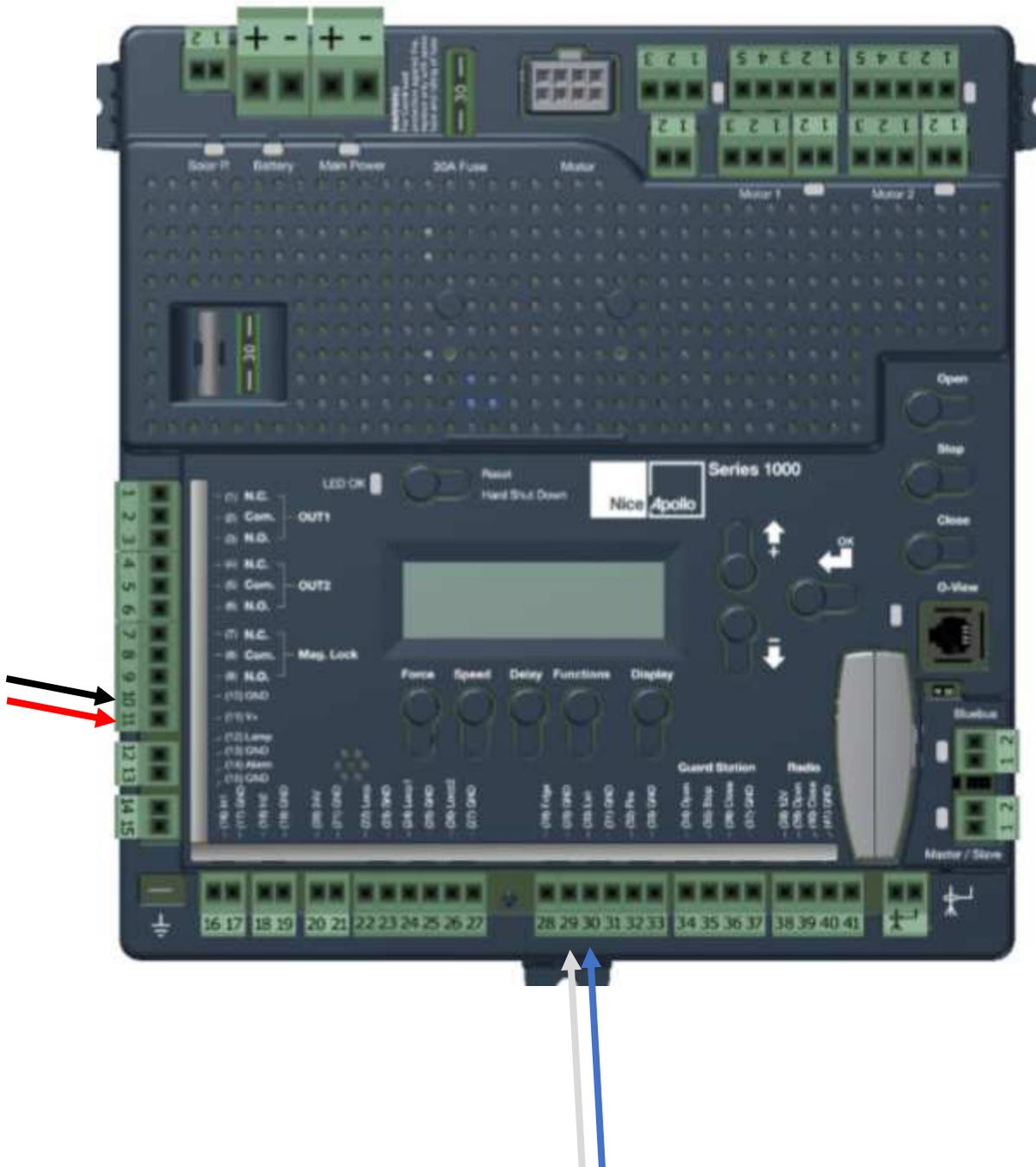
Power Locations: 12V a, 12V b, and 12V c

You can get power from any one of these, connect the Red wire to (+) and Black (GRD)



How to connect a Cartell CP-4 to an Apollo NICE 1050 board.

Connect the **BLACK** wire to Term# 10, the **RED** wire to Term# 11, the **WHITE** wire to Term# 29, and the **BLUE** wire to Term# 30. The **YELLOW** wire is not needed for this gate opener.



## CP-4 to Amazing Gates 900 HD

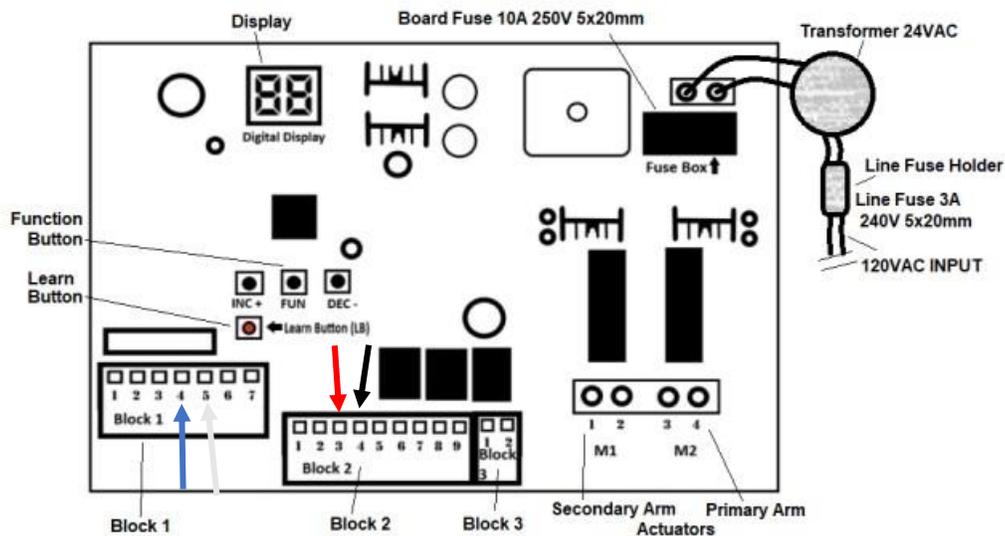
Red (+) to Block 2, Terminal 3 - 24VDC+

Black (-) to Block 2, Terminal 4 - GND

Blue Block 1, Terminal 4 - Swipe

White Block 1, Terminal 5 - COM

### AG900HD Control Board Reference Page



#### Block 1

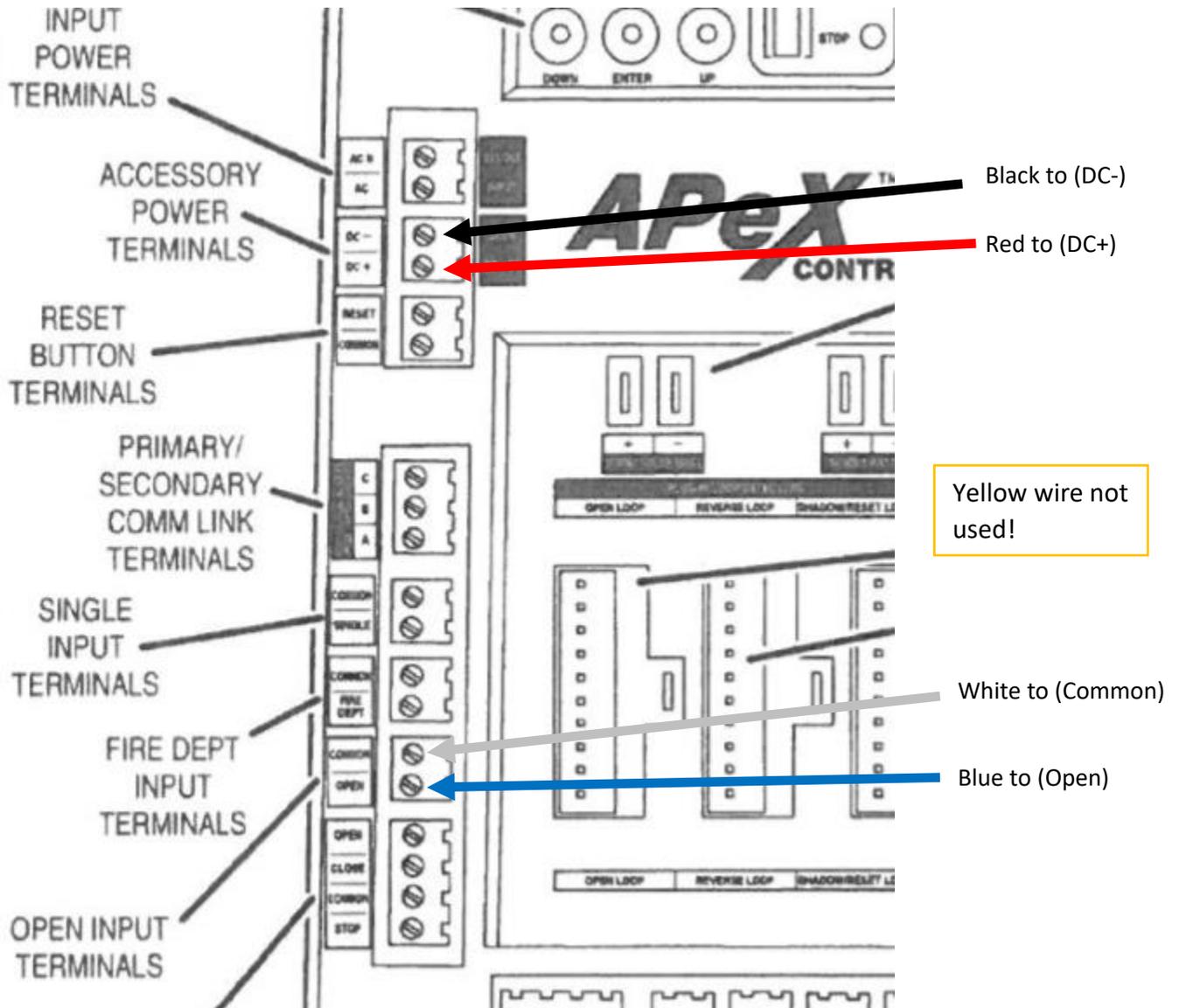
1. **2SIDE-** for connecting a *Keypad or Intercom* when the gate is a *Double gate*
2. **COM-** for connecting the ground or COM connection of Accessories
3. **1SIDE-** for connecting a *Keypad or Intercom* when the gate is a *Single gate*
4. **SWIPE-** for connecting an *Exit Sensor* to open the gate
5. **COM-** for connecting the ground or COM connection of Accessories
6. **"IR"**- for connecting a *Safety Photo Eye* (Typically the N.O. wire)
7. **12V DC-** output for providing Accessory power (Continuous output current  $\leq 200\text{mA}$ )

#### Block 2

1. **24V+ battery output-** for connecting the Solar/backup battery +
2. **24V- battery output-** for connecting the Solar/backup battery -
3. **24VDC+ output-** for 24V Accessory power (max current output 1A)
4. **GND-** for connecting the common of 24V Accessories and for a grounding rod
5. **24V DC lamp + output-** for connecting a Flashing light +

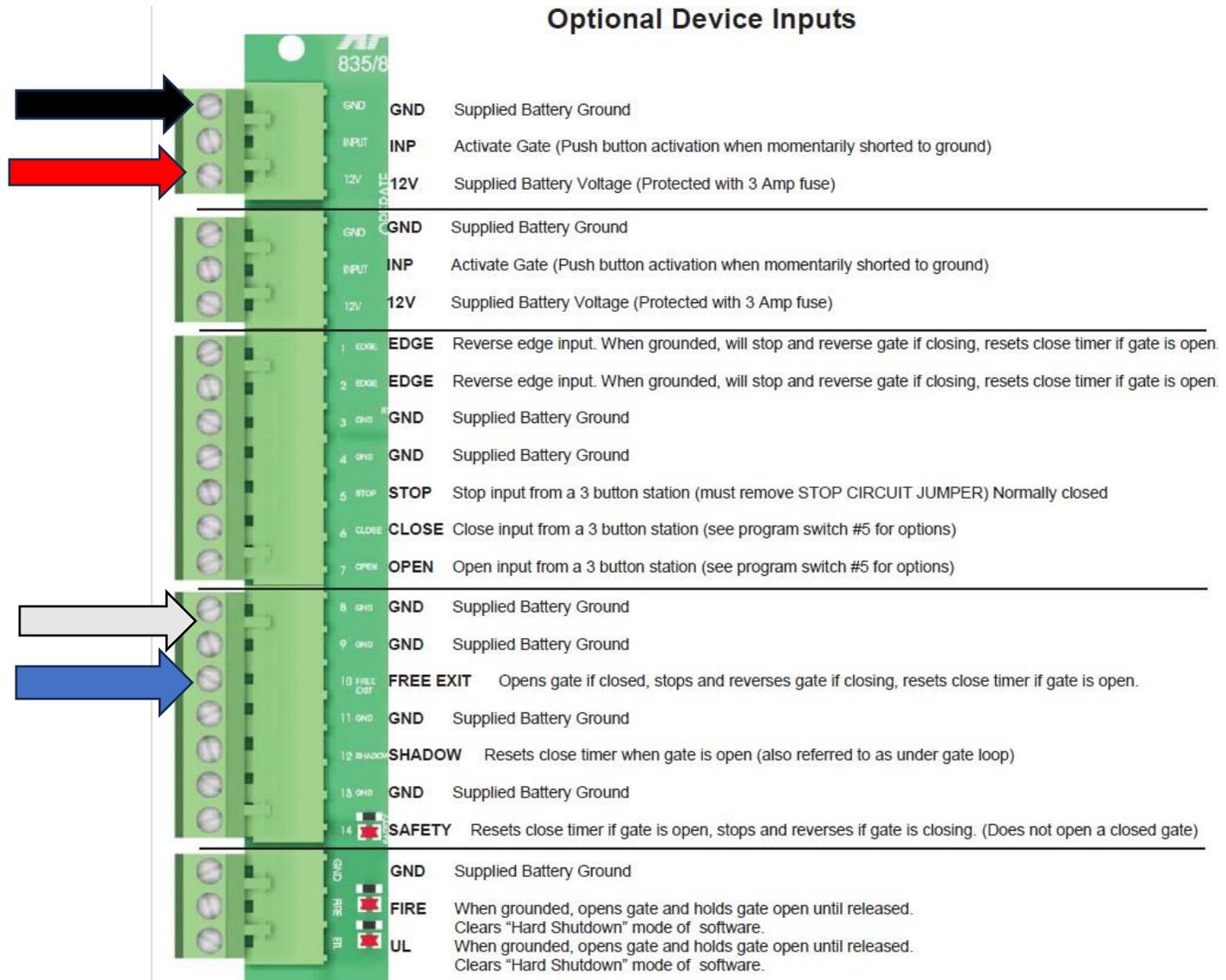
*The Yellow wire is not used.*

# CP-4 to Apex II



# CP-4 to Apollo 835/836

## Optional Device Inputs



**Red Wire to 12V.**

**Black Wire to GND.**

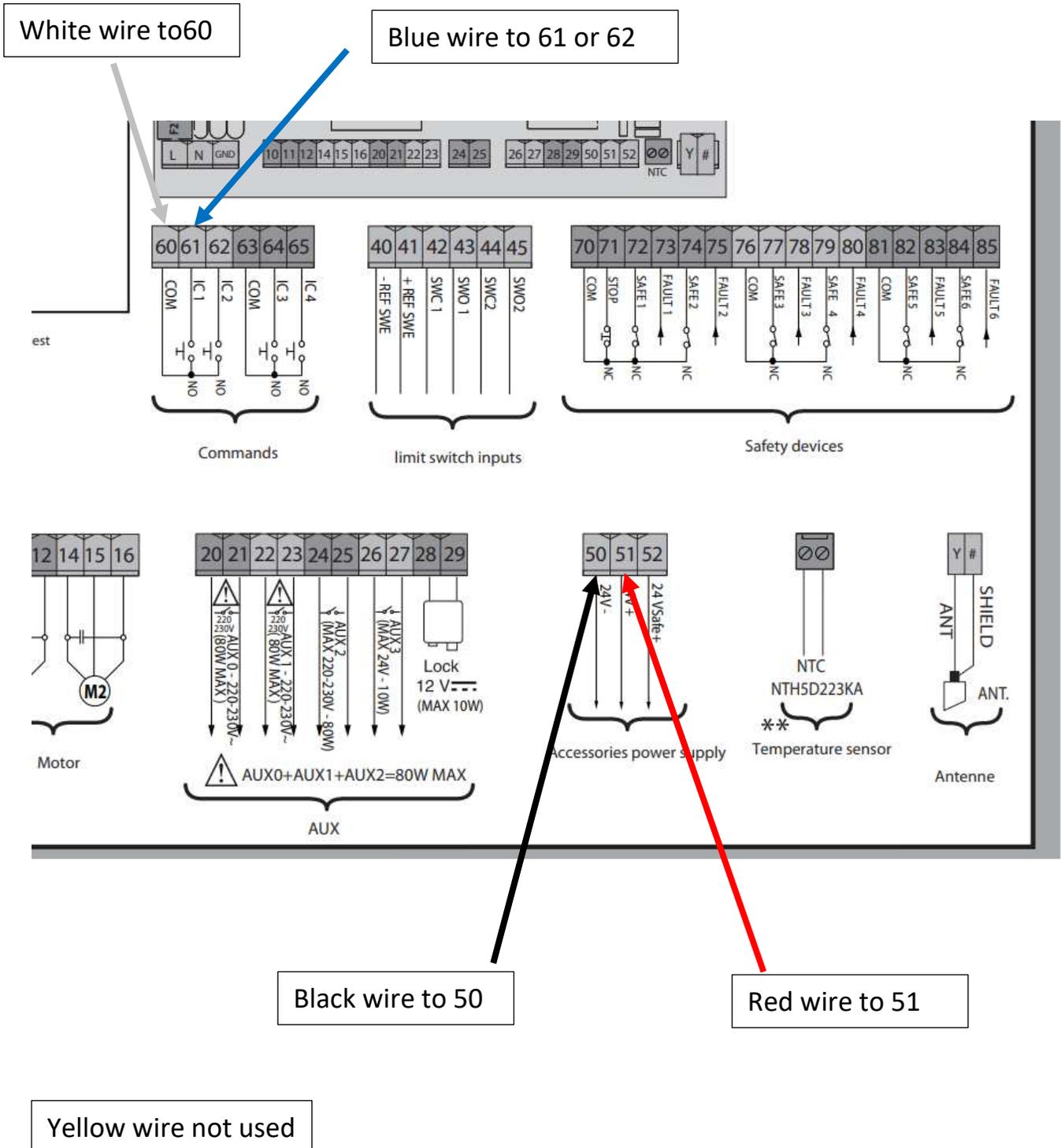
**White Wire on GND Terminals 8 or 9.**

**Blue Wire on terminal 10 Free Exit.**

**Yellow Wire is not used.**

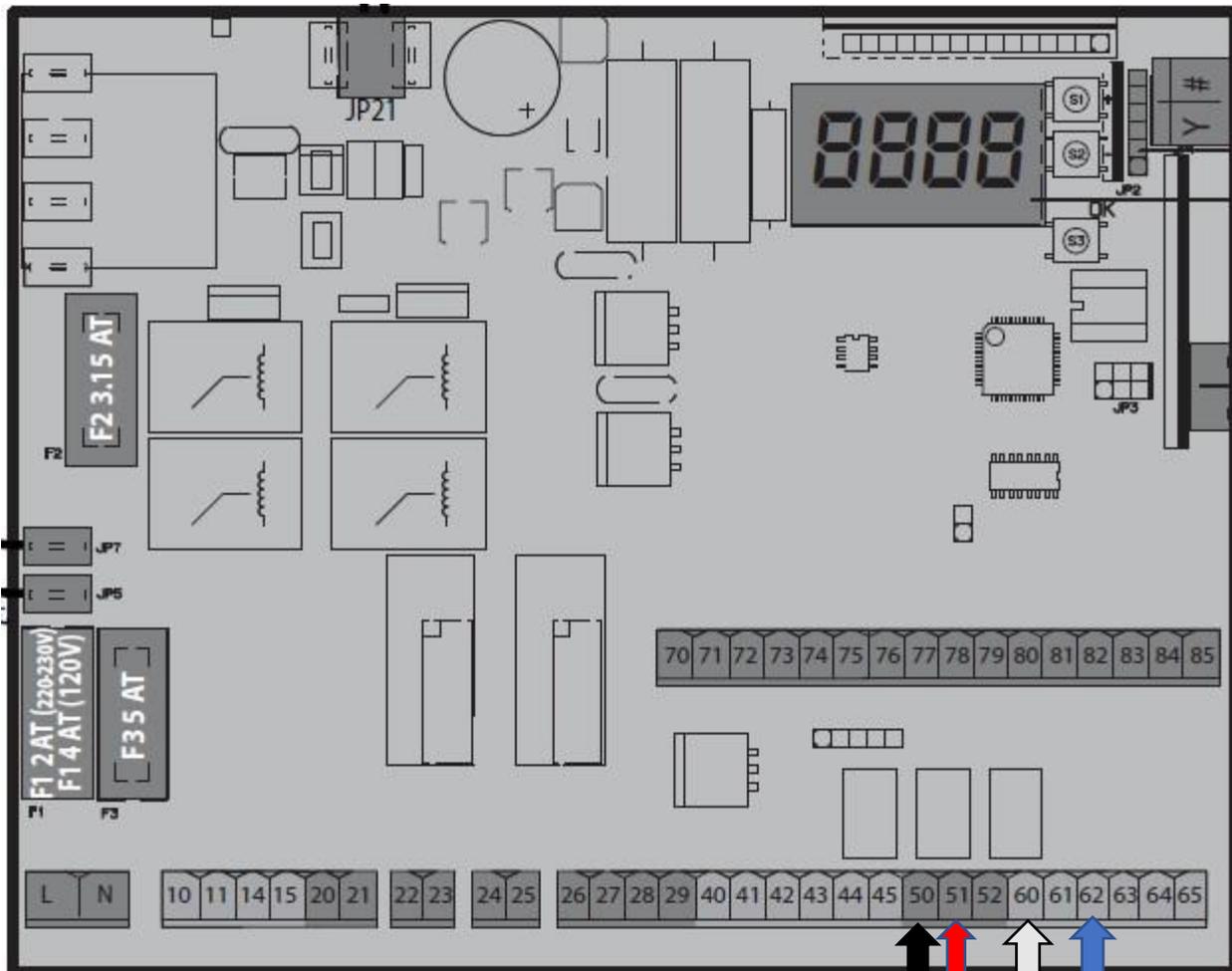
# CP-4 To BFT Regil 6 Control Board

The open command will come from terminal 61 or 62 which are programmable. You will need to program them to open and enable timer to close. When they are shorted to the COM terminal the gate should open.

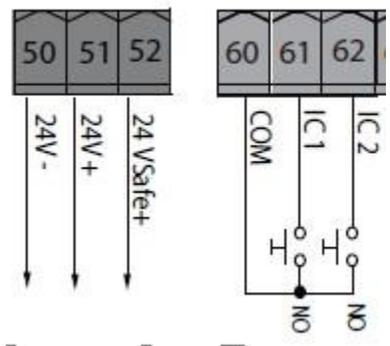


## CP-4 to BFT Thalia P

Power requirements: 8-24 VAC / 8-30 VDC.

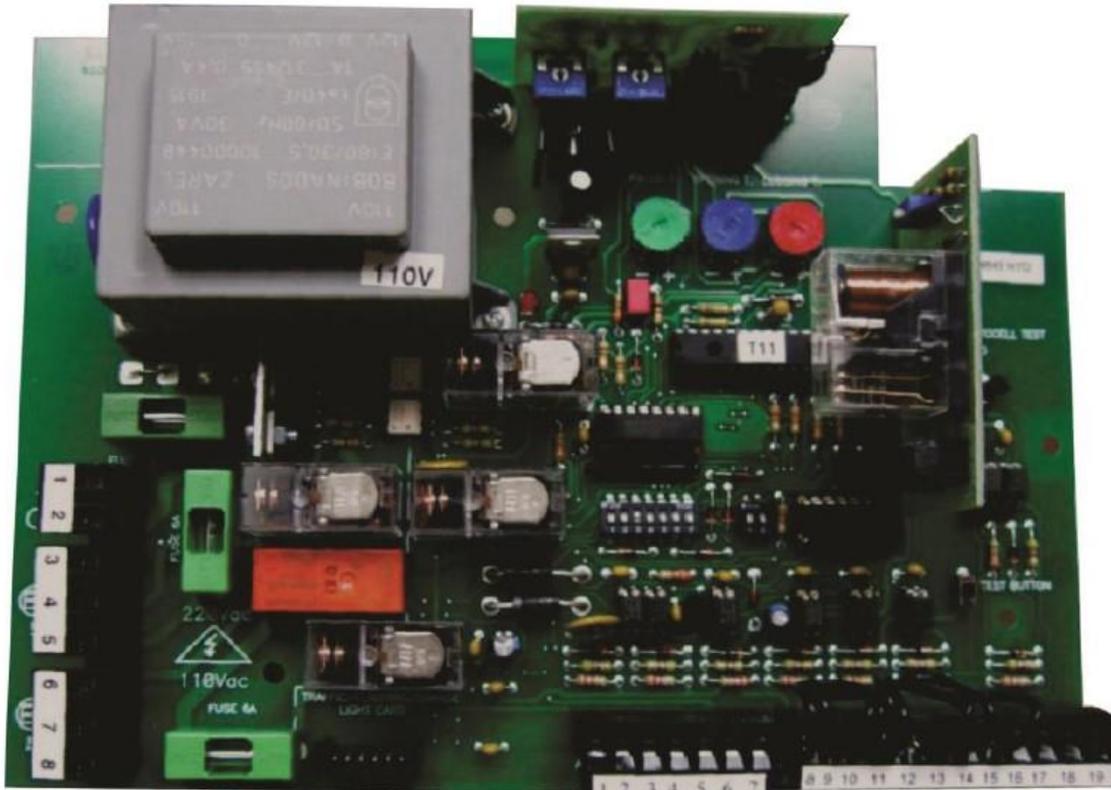


- Red (+) Power to Terminal 51
- Black (-) Power to Terminal 50
- White (Relay COM) to Terminal 60
- Blue (Relay Open) to Terminal 62
- Yellow Wire is not used.**



CP-4 to

## BYAN SYSTEMS G2M+ CONTROL BOARD



### ACCESSORY TERMINALS



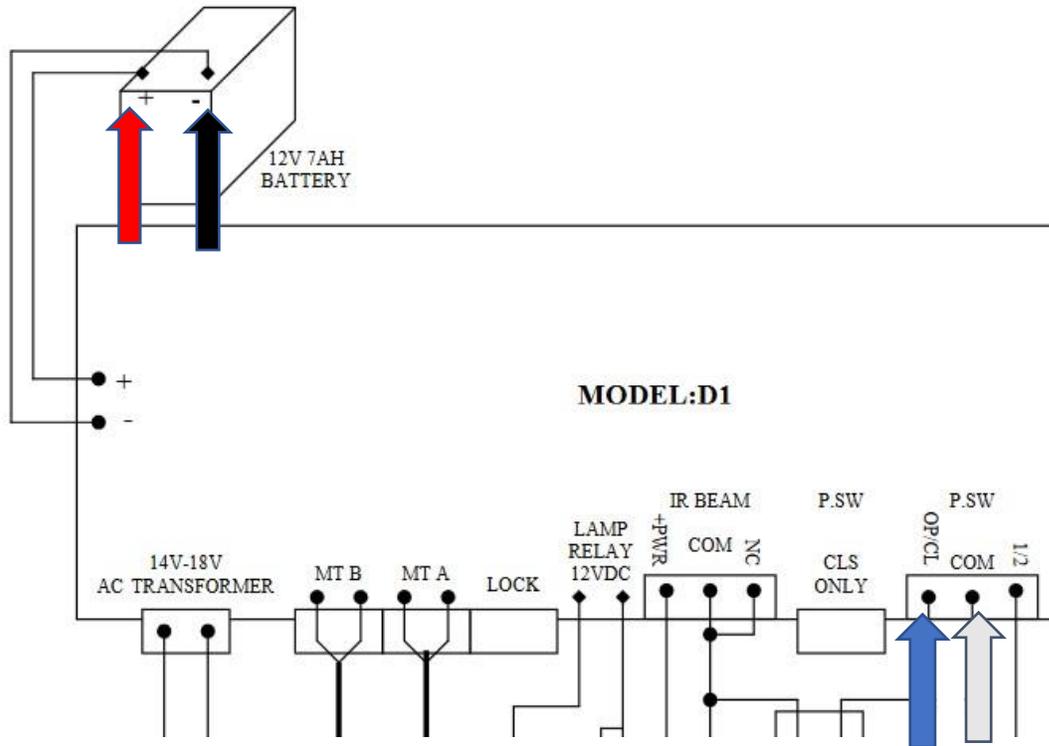
Accessory Terminals 3 & 4 are 24 VAC 1 Amp Output / CP-4 Red (+) and Black (-) connected here.

Accessory Terminal 16 Relay Common (COM) / CP-4 White wire is connected here.

Accessory Terminal 18 Open Input / CP-4 Blue wire is connected here.

CP-4 Yellow wire is not used.

## CP-4 to E8 Arm Gate Motor



Red (+) and Black (-) are power and are connected directly to the battery.

Blue wire to OP/CL (Open/Close)

White wire to common (COM)

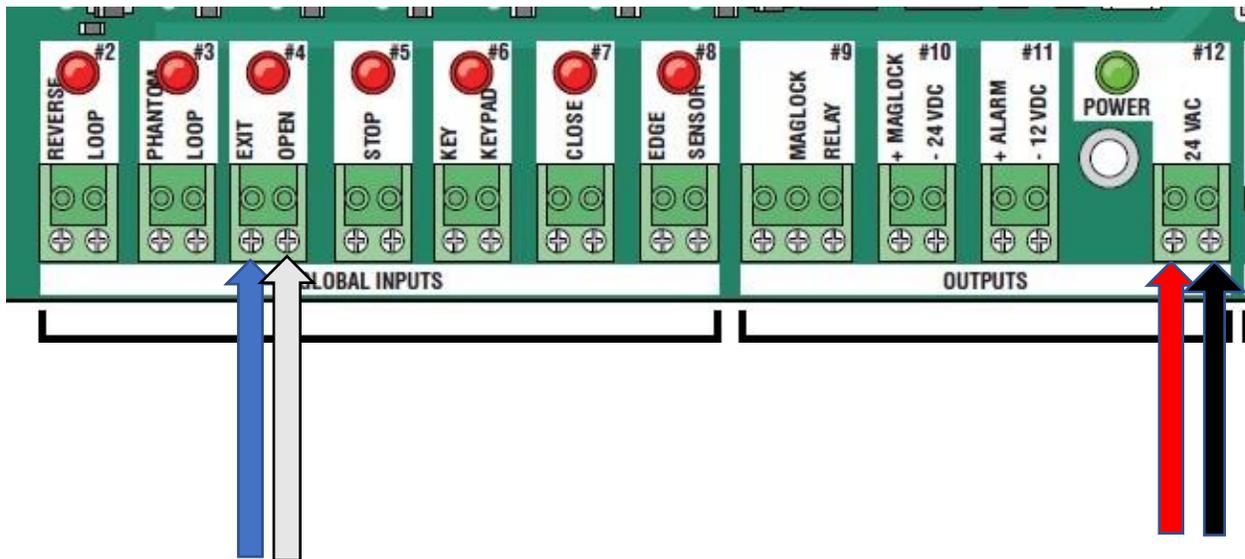
Yellow Wire is not used.

## CP-4 to Eagle 100/200 (Diamond Board)

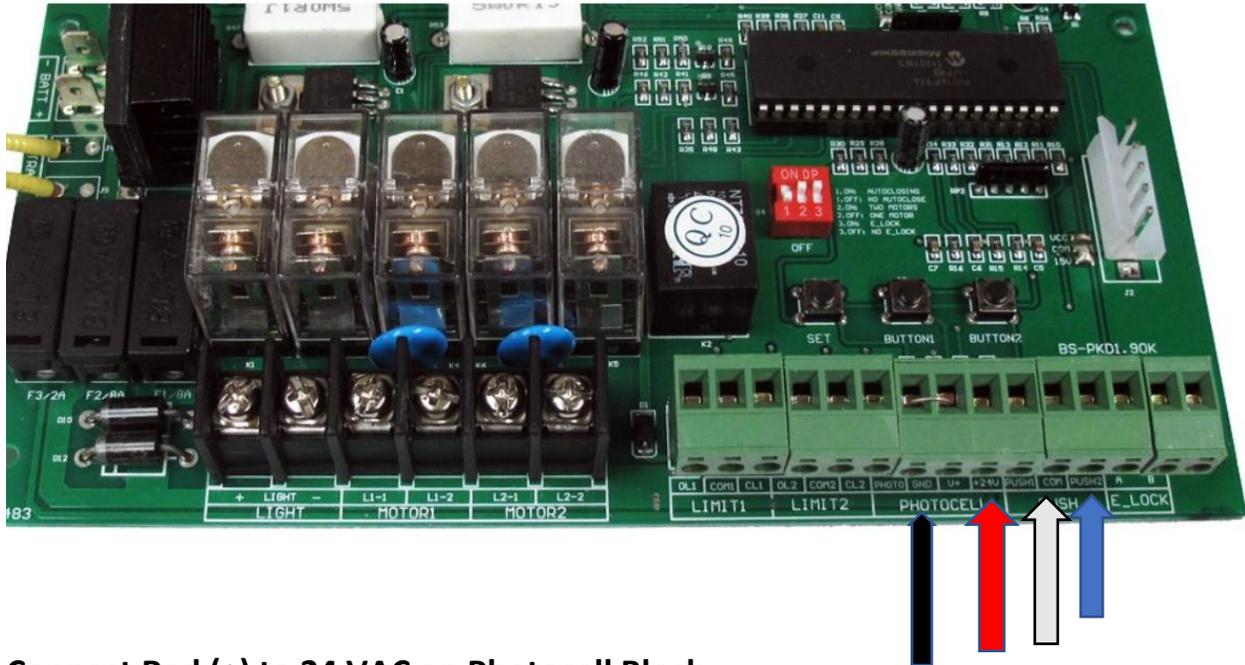
Blue and White wires to #4.

Red and Black wires to #12.

Yellow wire is not used.



## CP-4 to Estate Swing 1600



Connect Red (+) to 24 VAC on Photocell Block.

Connect Black (-) to Ground (GND) on Photocell Block.

Connect Blue Wire to PUSH 2 on PUSH Block

Connect White Wire to Common (COM) on PUSH Block.

**Yellow Wire is not used.**

## CP-4 to FAAC 400

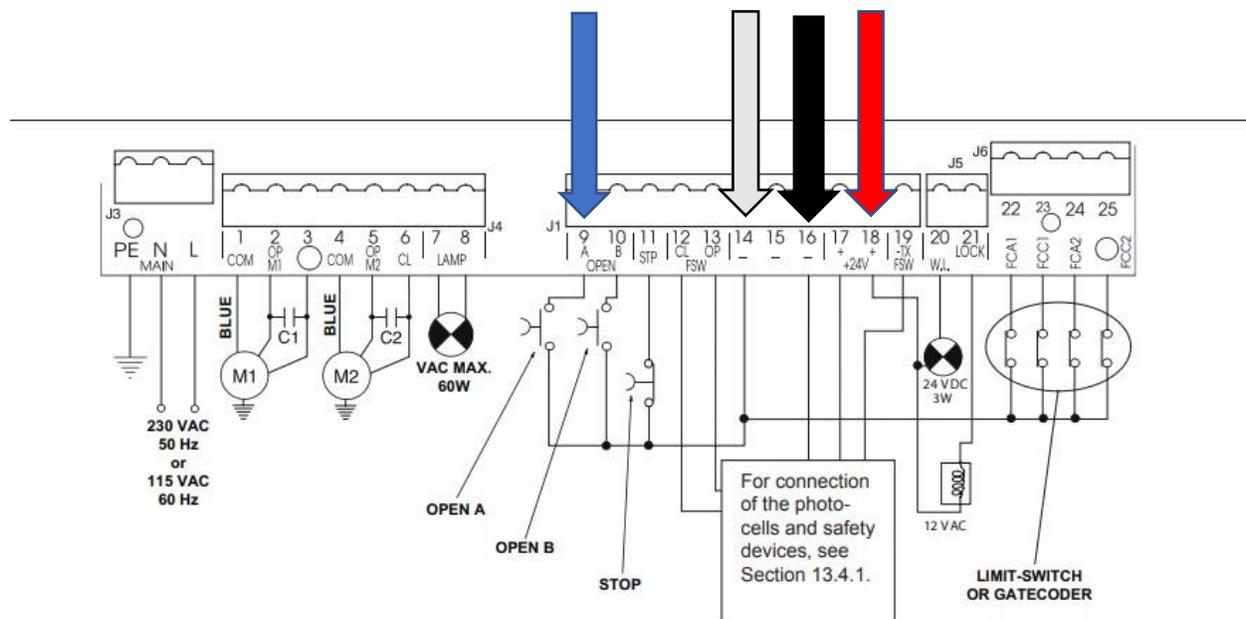
Blue wire to Terminal 9 Open A.

White wire to Terminal 14 (-). Note 15 or 16 will work as well.

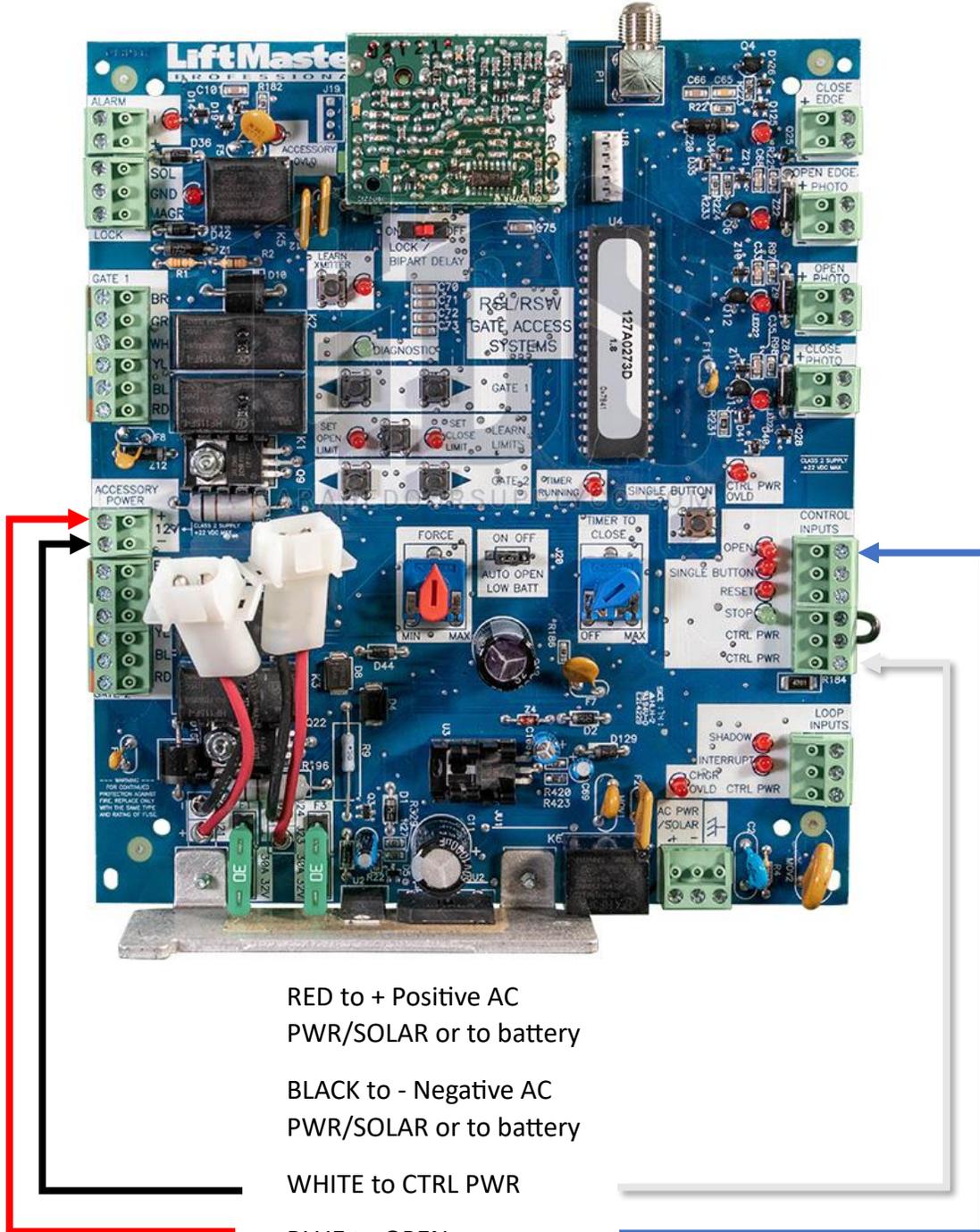
Red wire to Terminal 17 or 18 (+24)

Black wire to Terminal 16 (-). Note 14 or 15 will work as well.

Yellow wire is not used.



**CP4 to LA400 Older Model, RSW12U/V Older Model,  
LA412s, RSL12VH, GA400/420D**



RED to + Positive AC  
PWR/SOLAR or to battery

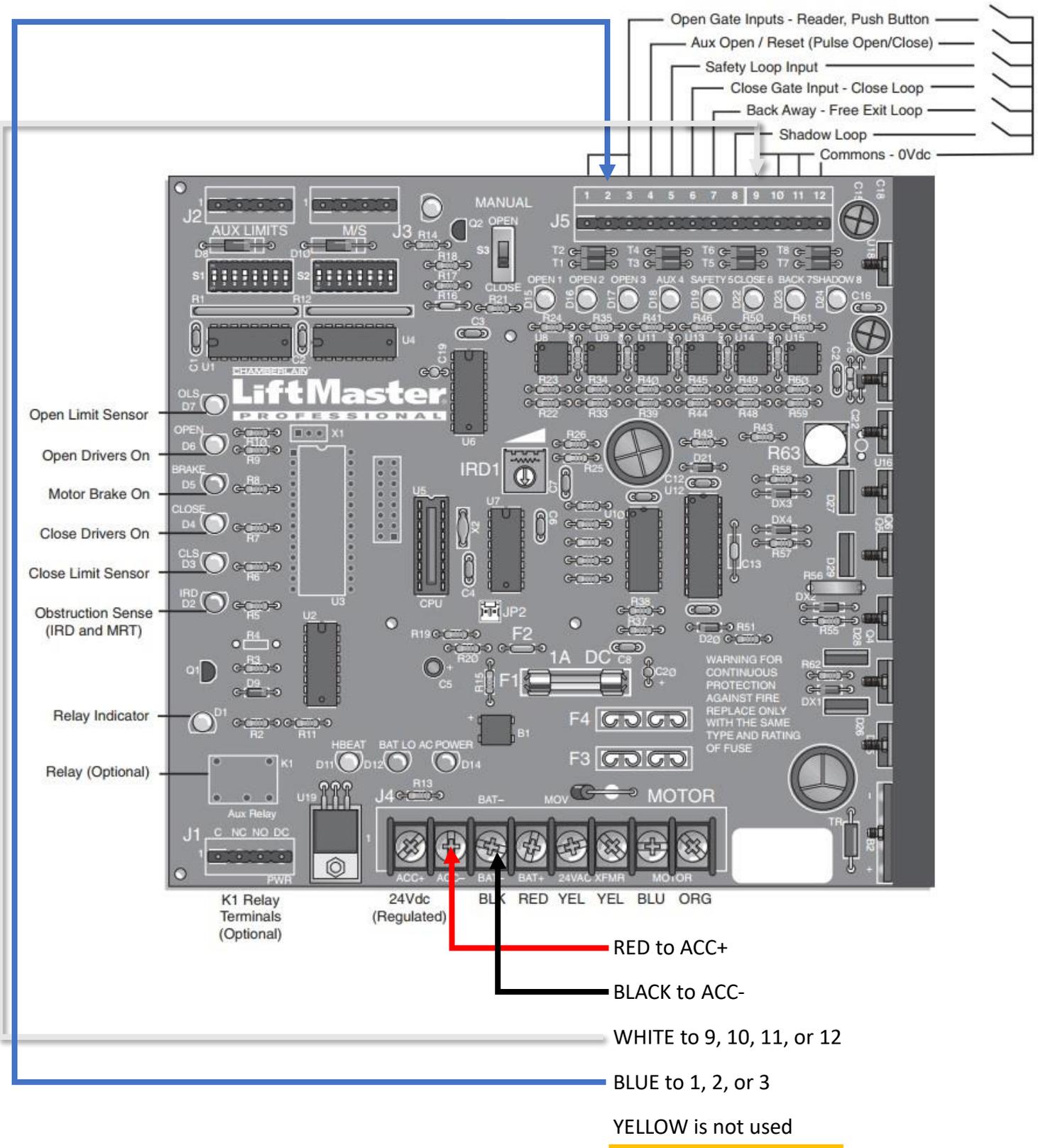
BLACK to - Negative AC  
PWR/SOLAR or to battery

WHITE to CTRL PWR

BLUE to OPEN

YELLOW is not used

# CP4 to LA-MSWDCBB



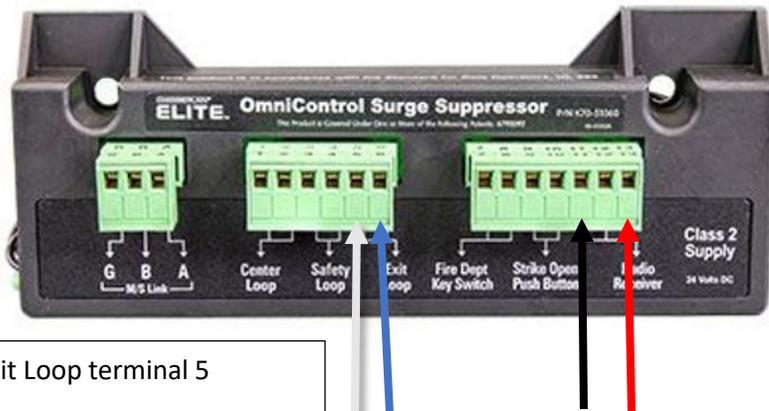
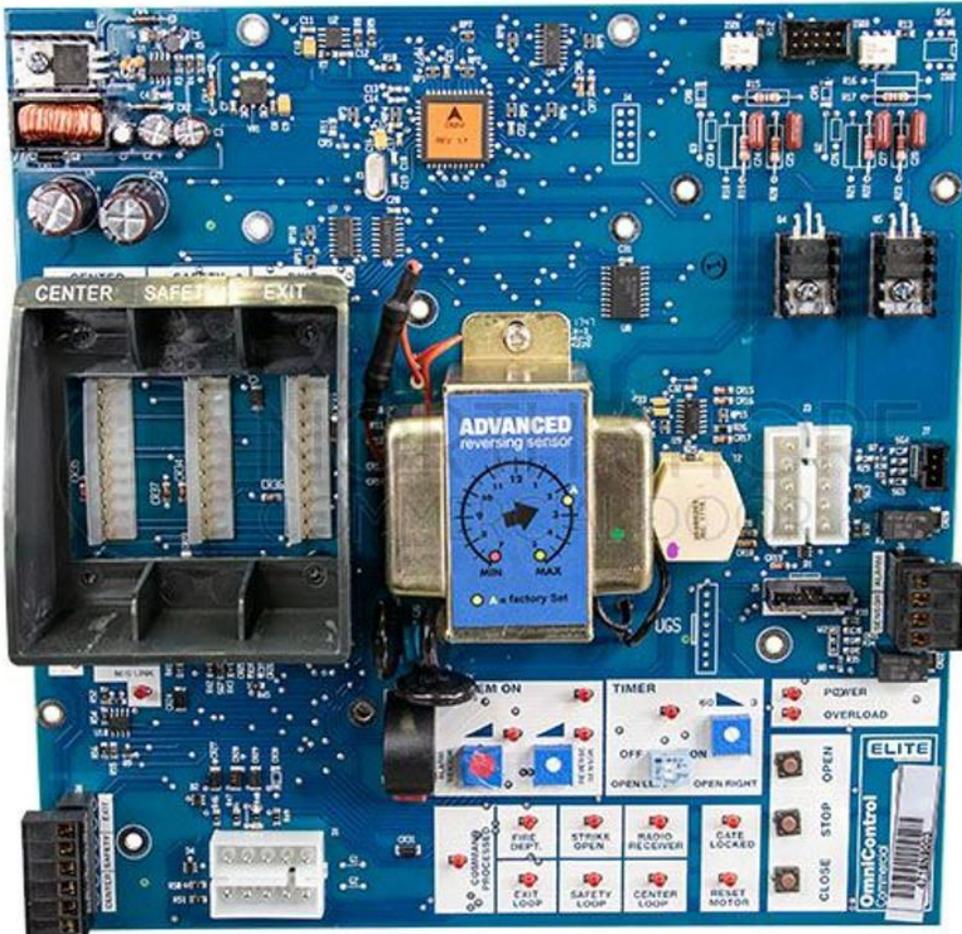
- Open Gate Inputs - Reader, Push Button
- Aux Open / Reset (Pulse Open/Close)
- Safety Loop Input
- Close Gate Input - Close Loop
- Back Away - Free Exit Loop
- Shadow Loop
- Commons - 0Vdc

- Open Limit Sensor
- Open Drivers On
- Motor Brake On
- Close Drivers On
- Close Limit Sensor
- Obstruction Sense (IRD and MRT)
- Relay Indicator
- Relay (Optional)

- RED to ACC+
- BLACK to ACC-
- WHITE to 9, 10, 11, or 12
- BLUE to 1, 2, or 3
- YELLOW is not used

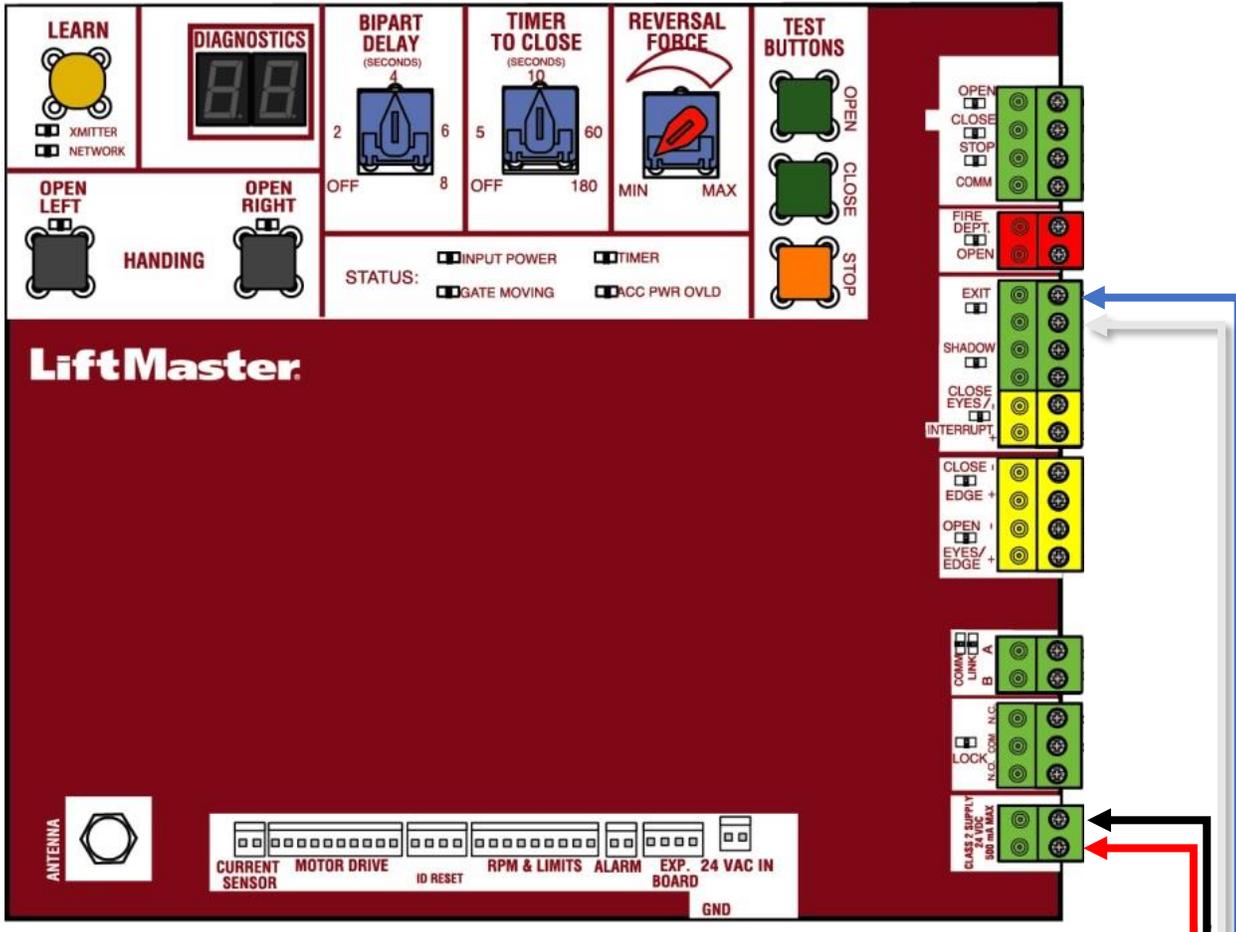
# CP4 to Lift Master SL3000UL, CSW200U (2005), ROBOSLIDE, R900

To connect to this board the Elite OmniControl Surge Suppressor is required. P/N Q410



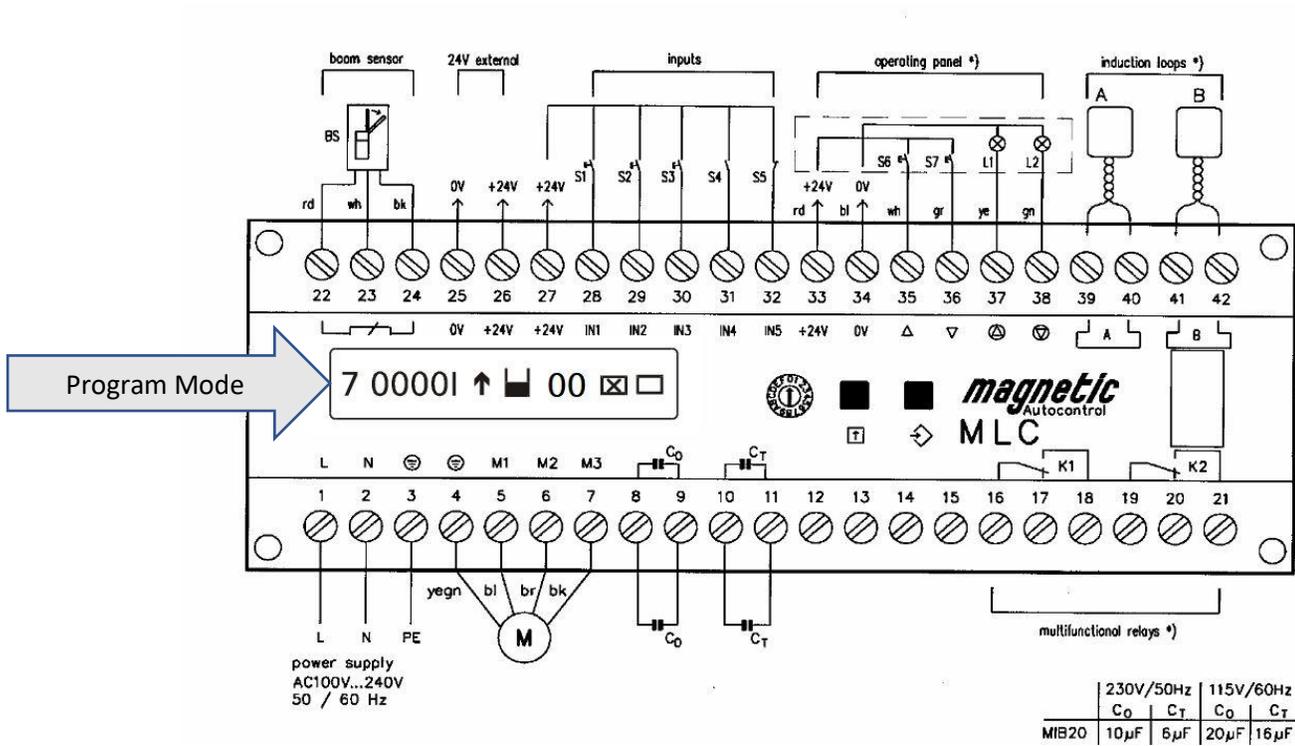
White to Exit Loop terminal 5  
Blue to Exit Loop terminal 6  
Black to Radio Receiver terminal 11 -  
Red to Radio Receiver terminal 13 +  
Yellow is not used. —————

# CP4 to Lift Master Elite SL3000UL, CSW200U (2018), SL585, SL595



Blue to Exit  
 White to Exit  
 Black to Accessory Power -  
 Red to Accessory Power +  
 Yellow is not used

## CP-4 to Magnetic Autocontrol MIB 20/30/40 Wiring Diagram



**Terminal 25 (OV) Black Wire**

**Terminal 26 (+24) Red Wire**

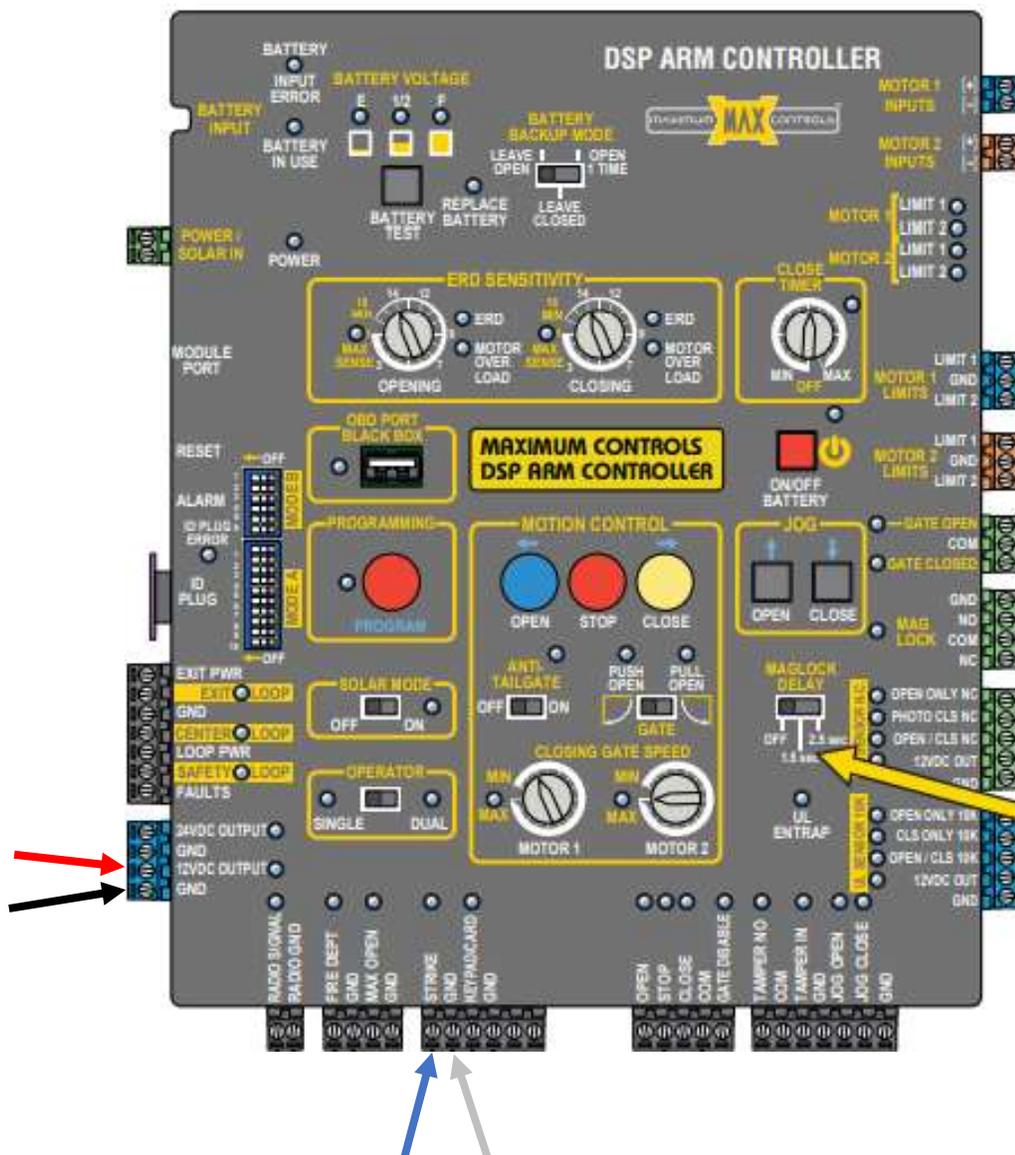
**Terminal 27 Blue Wire**

**Terminal 28 White Wire**

The Yellow wire is not used.

**Be sure that Program Mode FIVE is selected on the board.**

## Maximum Controls MAX ARM wiring to a CP-4

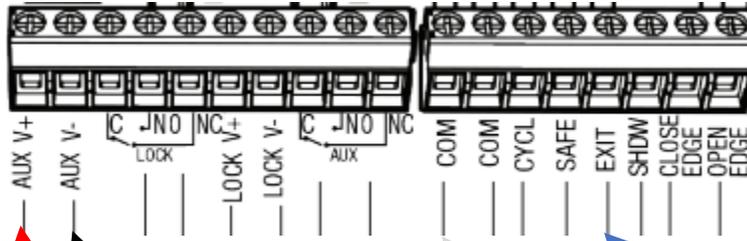


1. Connect CP-4 to power, **Red** wire to “12VDC or 24VDC” and **Black** wire to “GND”. Power needs to be constant not switched.
2. Connect **Blue** wire to “STRIKE” and **White** wire to “GND”.
3. **Yellow** wire is not needed for this installation.

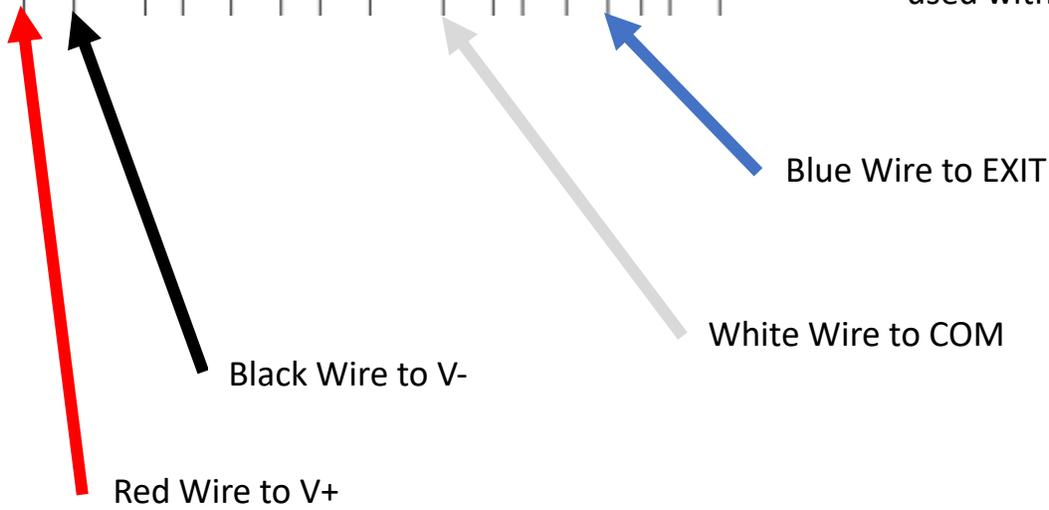
**CP-4 Power:** 8 – 30 VDC or 8 – 24 VAC **Stand-By-Current:** 30 -70 Microamps

# CP-4 to a Mighty Mule 571 (MM571)

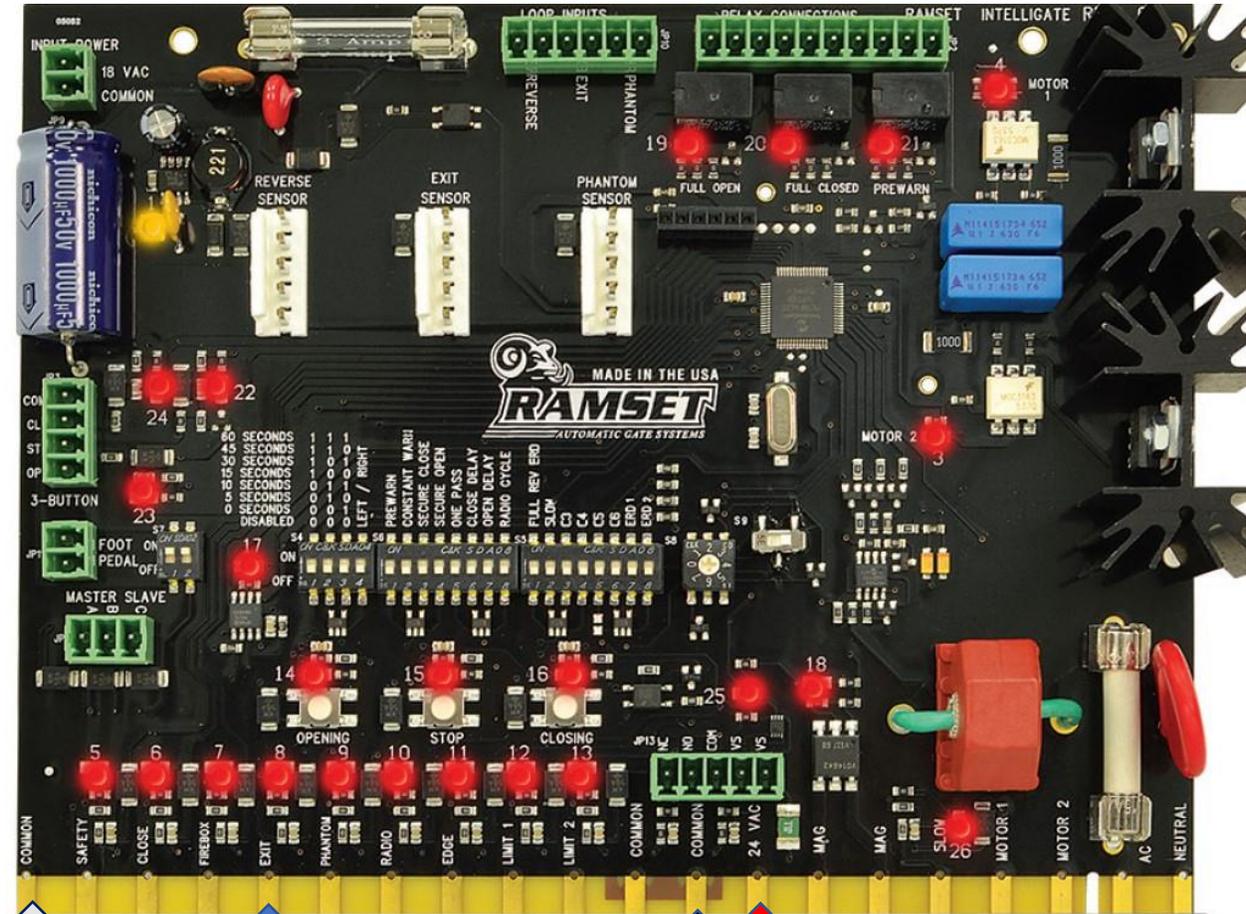
## Terminal Block in the MM571



Yellow wire is not used with this gate.



# CP-4 to RAMSET 100/1000/5500

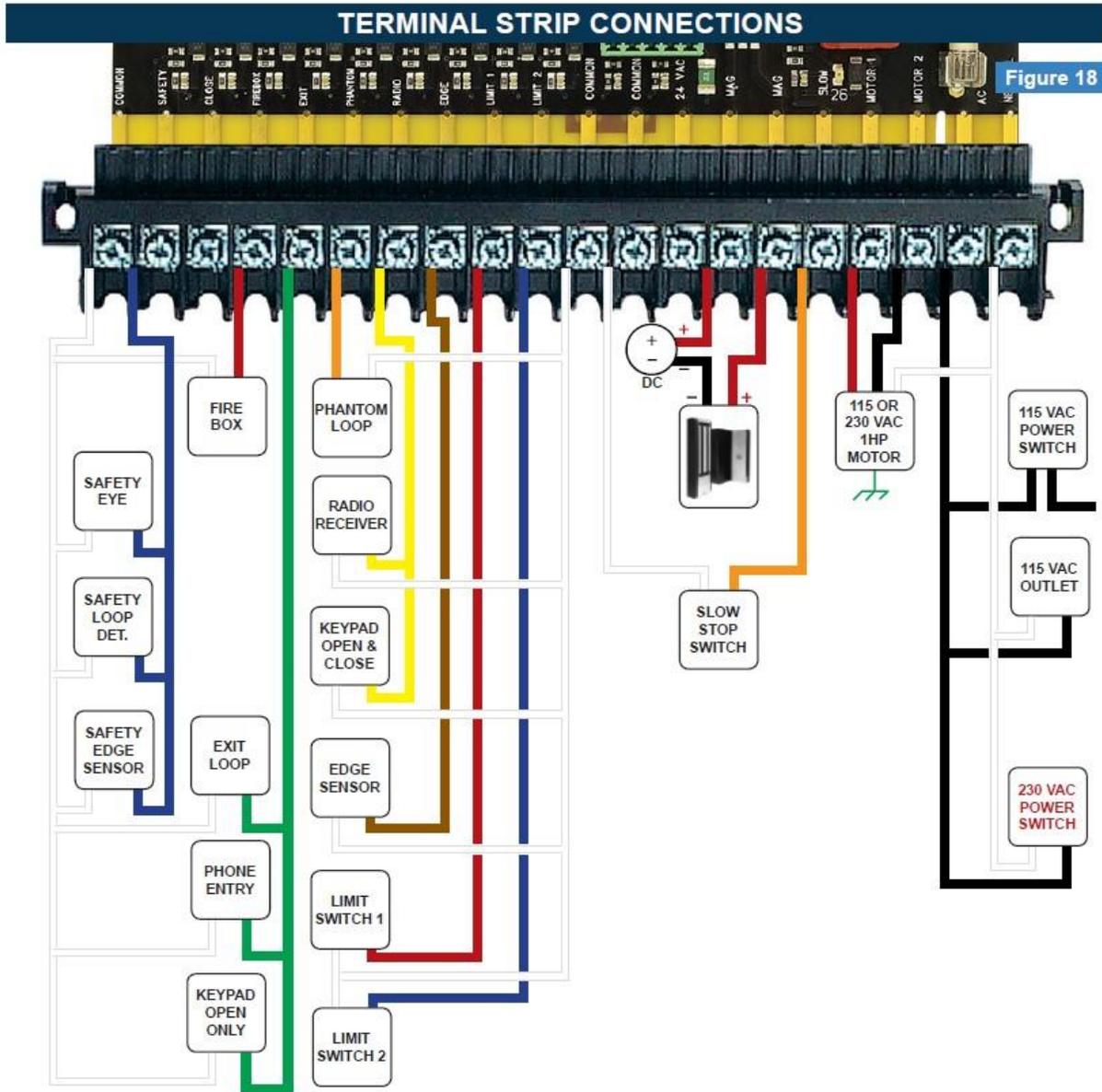


Red to 24 VAC  
 Black to Common  
 White to Relay Common  
 Blue to Exit

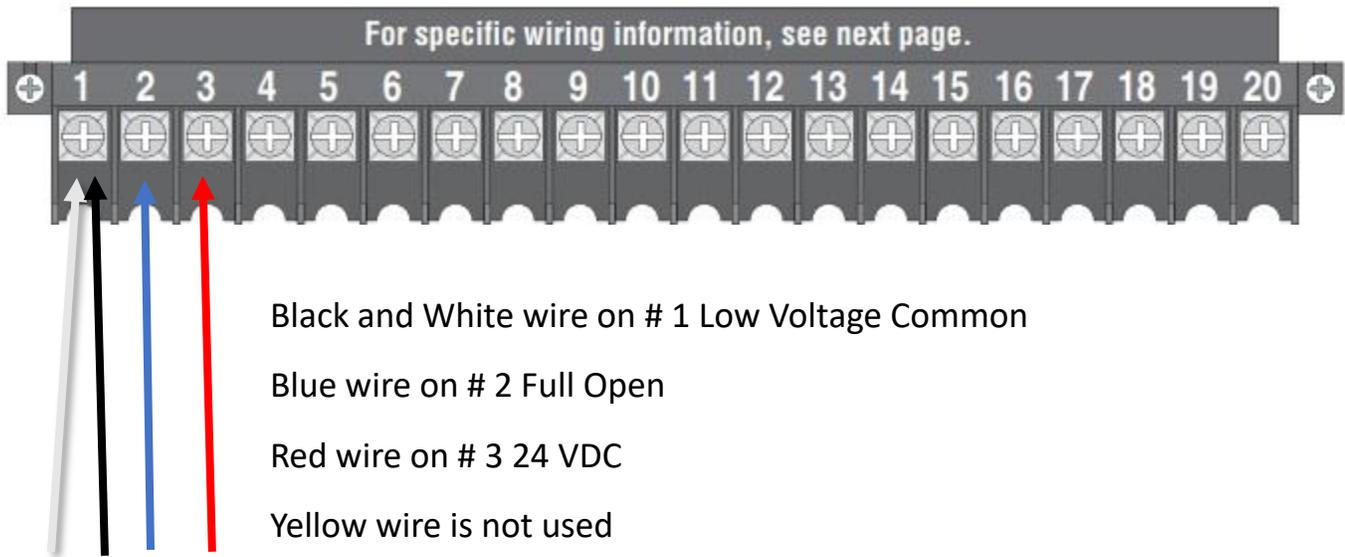
Green & Black to Power.  
 White & Blue are the relay closure.

**Yellow is not used.**

Additional information from manual.



## CP-4 to Door-King 4302

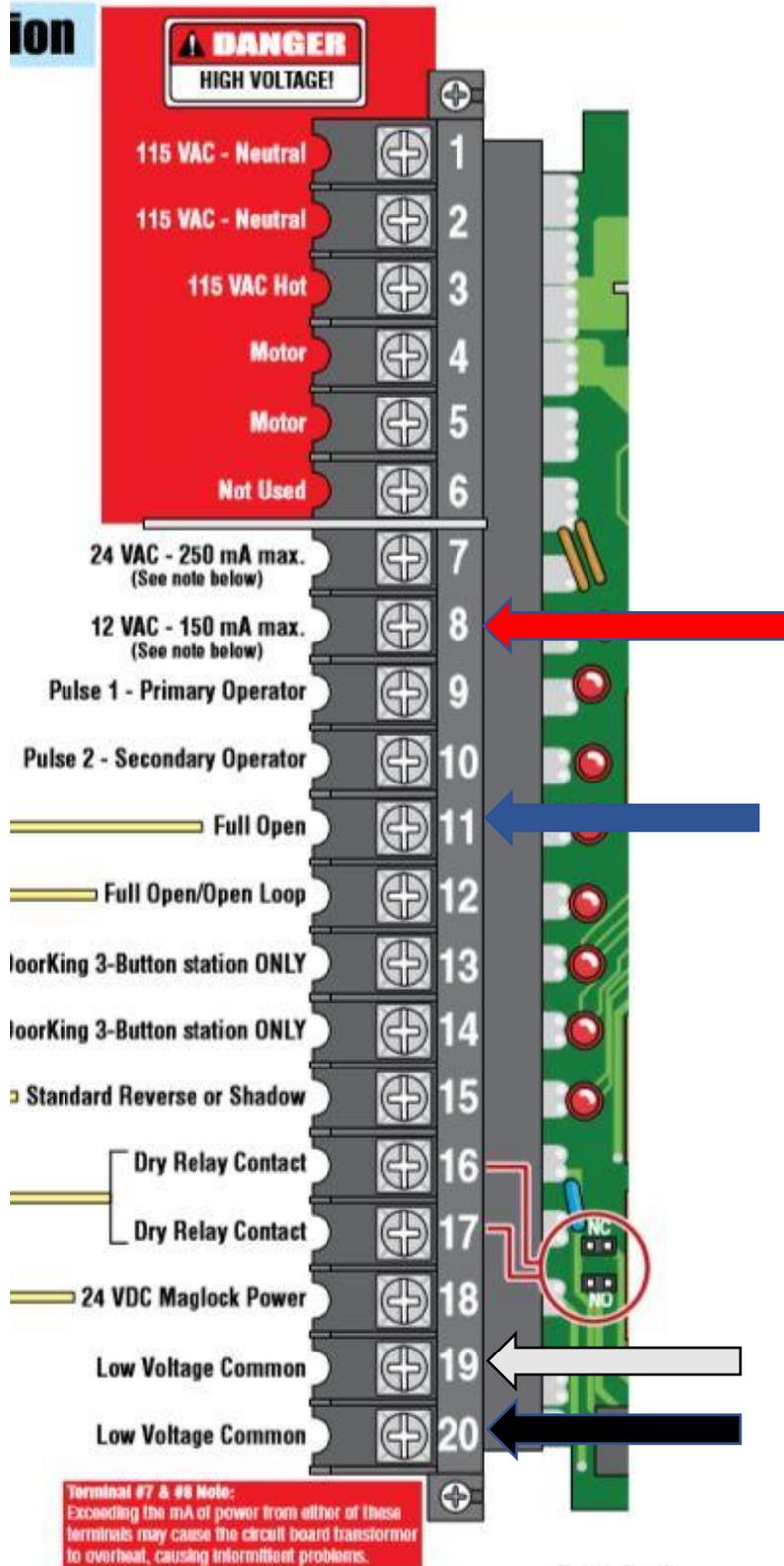


If the gate is closed this will trigger it to open

When the gate is open Switch 4 on the auto close timer block SW 1 will allow a trigger to re-set the auto close timer.

# 4 - WIRING

ion

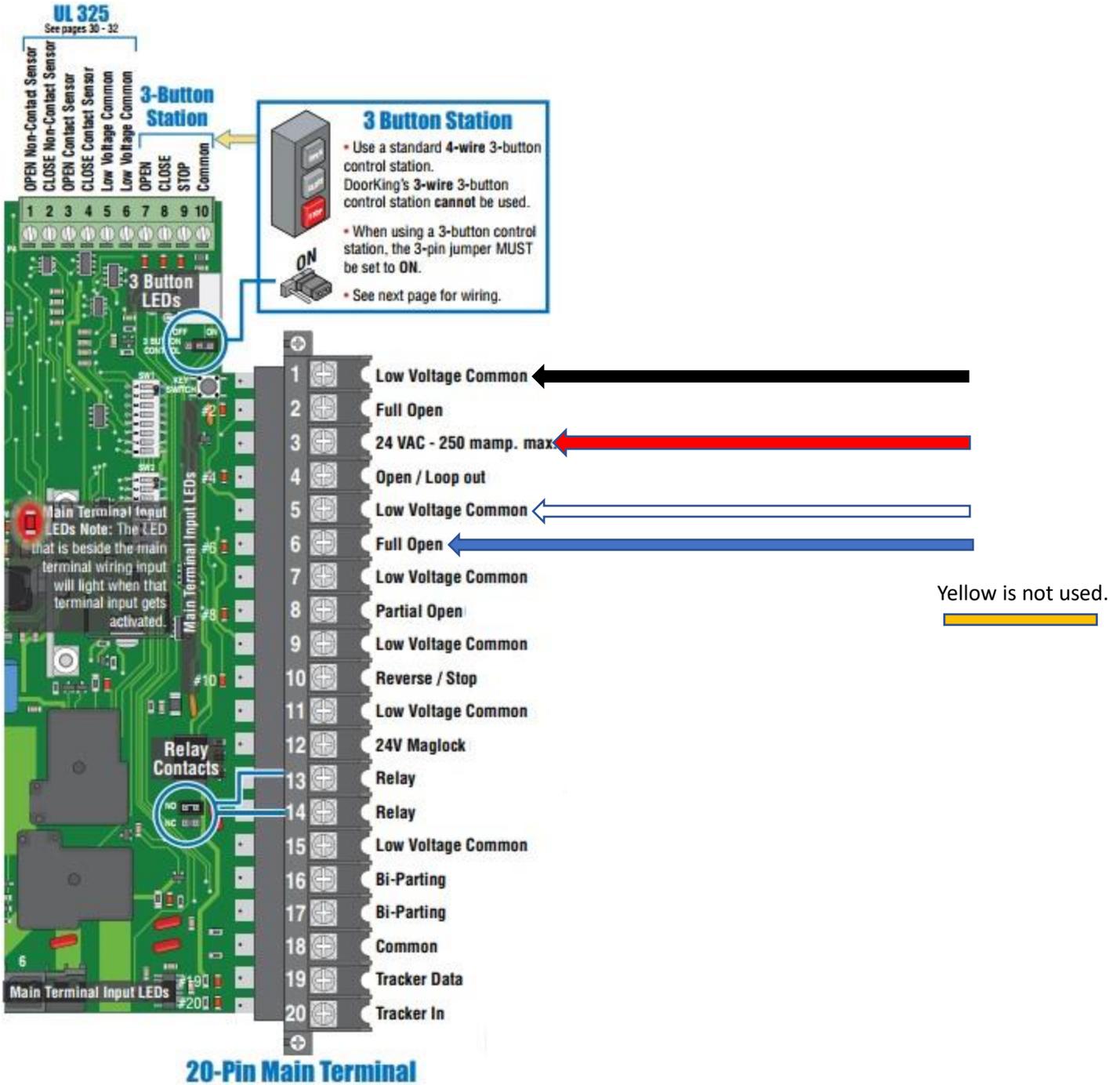


Red wire can be used on either terminal 7 or 8.

Blue wire to terminal 11.

White and Black can be used on the same terminal if needed.

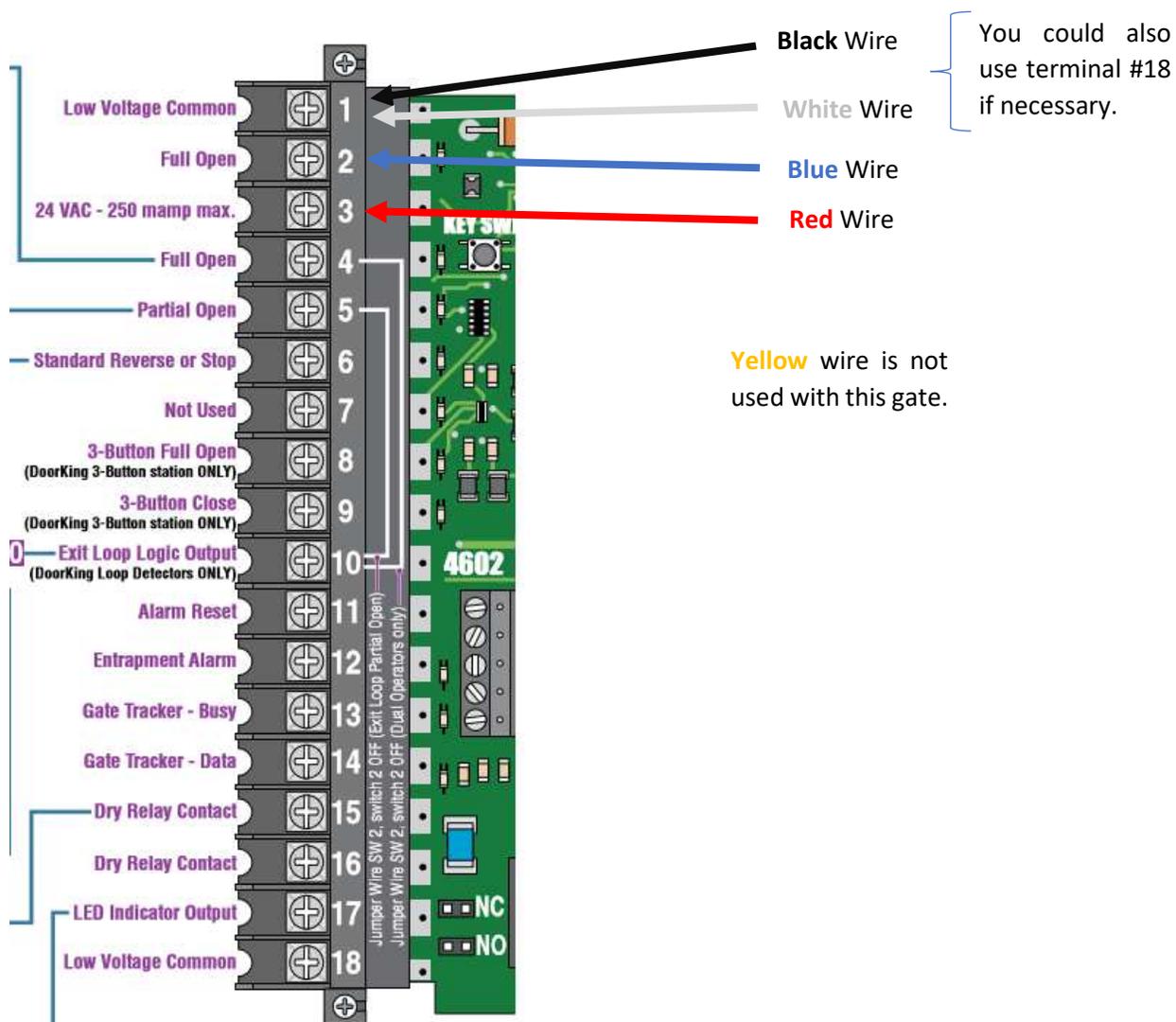
# DoorKing 9024 Wiring Diagram



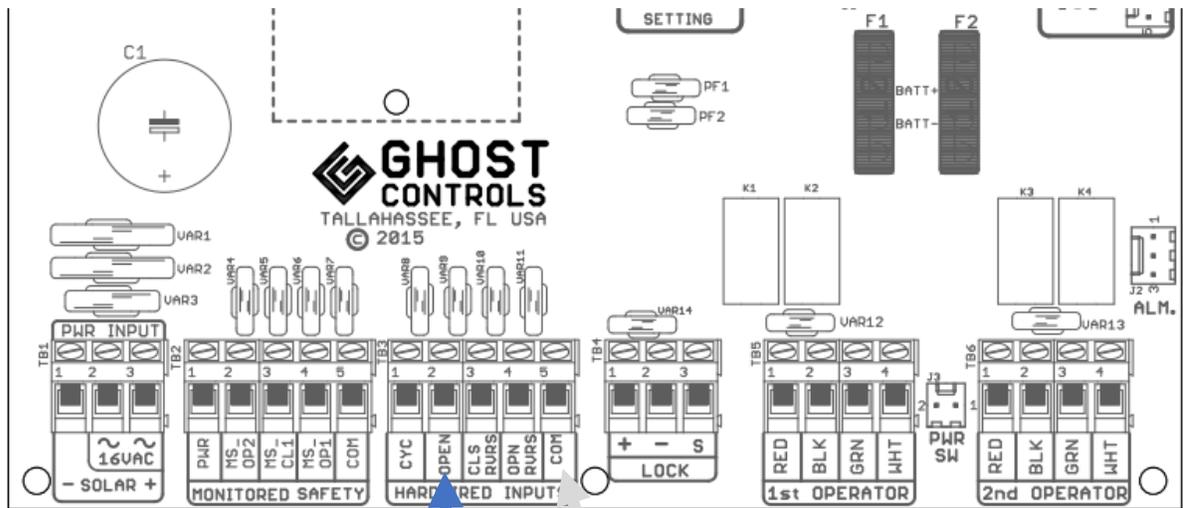
# CP-4 to DoorKing 9150 Control Panel

The CP-4 has 5 wires, **Red**, **Black**, **Blue**, **Yellow**, and **White**. You will only ever use 4 of these wires on a gate opener. **Red** and **Black** are for power and will always need to be connected to continuous power not switched.

The **White** wire is Common for the relay inside the CP-4, the **Blue** wire is the Normally Open side and **Yellow** is the Normally Closed side. Most domestic gate manufactures look for a short to ground to trigger the EXIT/OPEN function on the gate control board, so the **Blue** and **White** wires would be used to trigger. Some international gate manufactures look for an open from ground to trigger so you would use the **Yellow** and **White** wires to trigger.



## Connecting a CP-4 to a Ghost Control Gate Opener



White wire to COM

Blue wire to OPEN

(CP-4 Voltage ranges = 8-24 VAC or 8-30 VDC)

**Red** wire to a constant power source. Unit will run on AC or DC. Need to observe polarity only if DC, Red to positive (+).

**Black** wire to a constant power source. Unit will run on AC or DC. Need to observe polarity only if DC, Black to negative (-).



Blue Wire

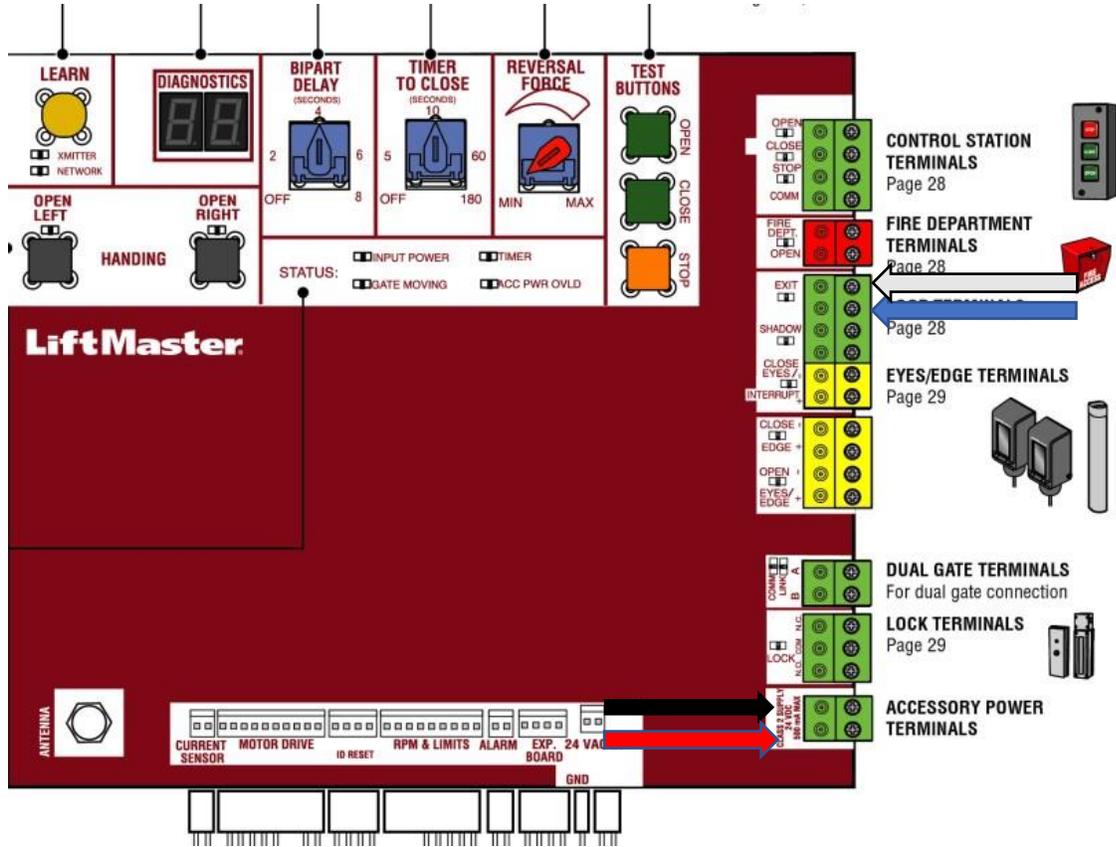
White Wire

Yellow Wire is not needed!

Black Wire

Red Wire

# CP-4 to LA 585 Wiring Diagram



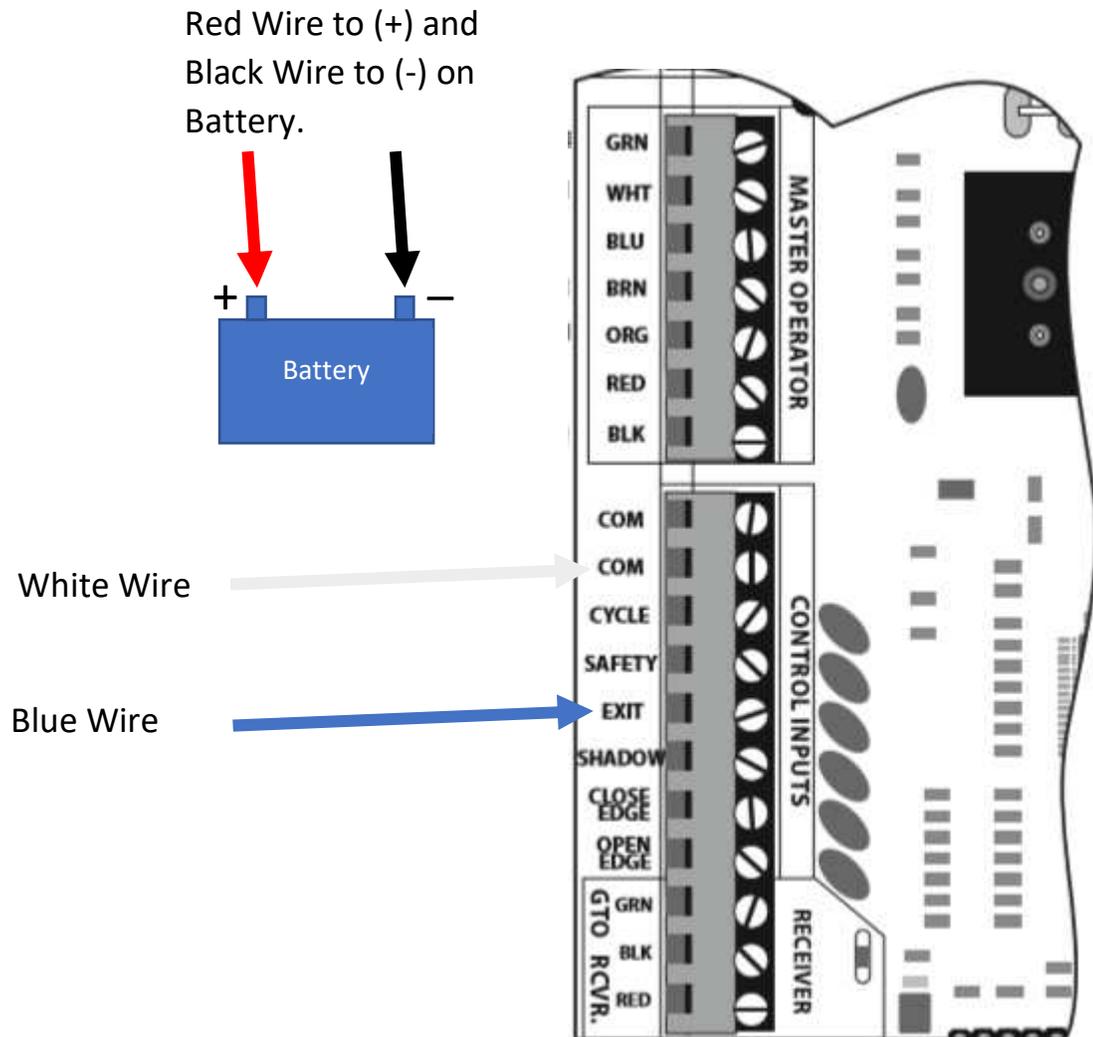
Blue and White on EXIT terminal Block

Red and Black on Accessory Power terminal block (need to observe polarity)

Yellow wire is not used.

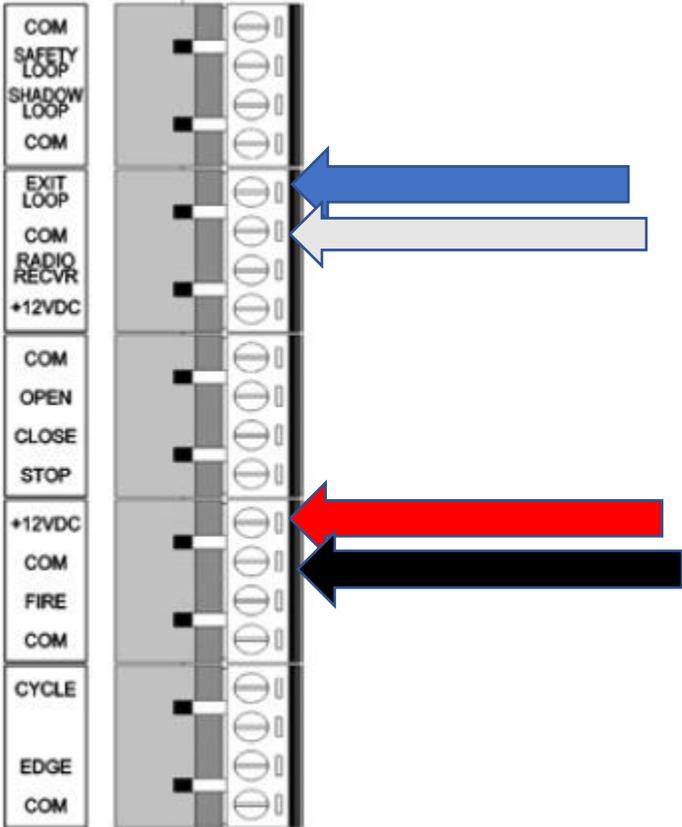
# Linear Pro 3000XLS Gate Opener Exit Wand Instructions:

Connect the Cartell CP-4 gate opener to the Linear Pro 3000XLS as follows:



White Wire to "COM" and Blue Wire to "EXIT", the Yellow wire is not used.

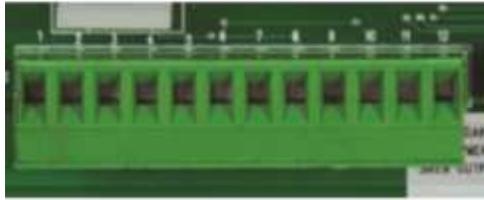
CP-4 to Polaris 500/700



The Yellow wire is not used.

# CP4 to US Automatic “Patriot” Connection information:

## “J2” Terminal Block:



## “J2” Definitions:

Terminal	
1	+12 vdc Output <i>(Maximum current output 1.5 amp - 1500 milliamps)</i>
2	Common Ground Input -12 vdc
3	Push Button Input <i>(normally open contacts)</i> <i>(Push button, radio control, keypad, etc.)</i>
4	Open Safety Edge <i>(normally open contacts)</i> <i>(Stops gate when opening)</i>
5	Close Input <i>(normally open contacts)</i>
6	Contact Edge N/O connection monitored entrapment <i>DS2 switch 4 must be ON when monitored edge is connected or when</i> <i>*Secondary Entrapment Input is connected when in pre 2016 configuration</i>
7	Common Ground Input -12 vdc
8	Photo Eye N/C connection monitored entrapment <i>DS1 switch 8 must be on when monitored eye is connected</i> <i>*Not used in pre 2016 configuration</i>
9	Free Exit / Open Input <i>(normally open contacts)</i> <i>Loop input or any hold open input such as a 7-day timer, telephone access</i> <i>unit, or maintain contact switch (normally open contacts). These devices</i> <i>open the gate and will prevent the gate from closing if the contact is</i> <i>maintained. Once the contacts have been released, the gate can be closed</i> <i>with a closed signal device or the automatic close timer feature. Receiver</i> <i>relay2 pre-wired for latching open.</i>
10	Center Loop or Under Gate Loop Input <i>(normally open contacts)</i>
11	Safety Loop / Photo-eye / Reversing Edge Input used for vehicular protection devices. <i>(normally open contacts)</i>
12	Photo Eye Power +12 vdc output 1 amp max current <i>Only present when DS1 switch 10 is ON and gate is moving or DS1 switch 3 and 4 are</i> <i>OFF and DS1 switch 10 is ON used for installation.</i>



White to #2 or #7



Yellow wire not used.

CP4 to US Automatic “Patriot” Connection information:

**CP-4 5W Connections: (Wires colors were changed with CP-4)**

- **Red** Wire to J2 Terminal #1 +12 VDC
- Black Wire to J2 Terminal #2 -12 VDC Ground
- **White** Wire to J2 Terminal (#2 or #7) -12 VDC Ground
- **Blue** Wire to J2 Terminal #9 Free Exit/Open Input
- **Yellow** Wire is not used.

**If you short “J2” terminals #7 & #9 with a short piece of wire, this should trigger your gate to open. If this is not working the exit device will not open the gate.**

# US Automatic Sentry 300 Gate

## How to wire up a CP-4

There are 3 possible models of boards for the Sentry 300 one with 7 terminals, one with 9 terminals, and one with 12 terminals.

### 7 Terminal Model:

#### **J2 Terminal** (Accessory Wiring)

Accessories wire to the J2 connector. Insert wire and tighten screw.

##### **J2 pin functions are as follows:**

J2 pin 1 - +12 VDC output for any accessory power needed (80ma max).

J2 pin 2 - Ground connection for any accessory item.

J2 pin 3 - Open / Exit sensor input for opening the gate only (N/O connection)

J2 pin 4 - Secondary entrapment device input (N/O connection).

J2 pin 5 - Safety Reversing input (Photo Eye N/O input)

J2 pin 6 - Photo Eye Power output (+12 VDC only) connect photo eye power lead here.

J2 pin 7 - Solenoid Lock Power output (+12 VDC only) connect solenoid lock power lead here.



J2 Terminal

CP-4 – Red wire goes to J2 pin 1 +12 VDC

CP-4 – Black and White wires go to J2 pin 2 Ground

CP-4 – Blue wire goes to J2 pin 3 Open / Exit

### 9 Terminal Model:

#### **J2 Terminal** (Accessory Wiring)

Accessories wire to the J2 connector. Insert wire and tighten screw.

J2 pin functions are as follows:

J2 pin 1 - +12 VDC output for any accessory power needed (80ma max).

J2 pin 2 - Ground connection for any accessory item.

J2 pin 3 - Push Button input

J2 pin 4 Monitored contact edge input N/O

J2 pin 5 - Safety Reversing input (Photo Eye N/O input)

J2 pin 6 - Photo Eye Power output (+12 VDC only) connect photo eye power lead here.

J2 pin 7 - Solenoid Lock Power output (+12 VDC only) connect solenoid lock power lead here.

J2 pin 8 - Monitored Photo Eye - N/C

J2 pin 9 - Open Input / Exit Sensor - N/O



J2 Terminal

CP-4 – Red wire goes to J2 pin 1 +12 VDC

CP-4 – Black and White wires go to J2 pin 2 Ground

CP-4 – Blue wire goes to J2 pin 9 Open / Exit

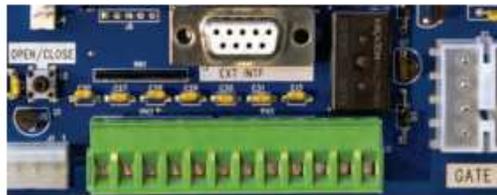
# US Automatic Sentry 300 Gate

## 12 Terminal Model:

### J2 Terminal Description

The accessory connector is a plug which can be removed from the control board for ease of wiring and troubleshooting purposes.

Pull out to remove.



J2 Terminal

Terminal	
1	+12 vdc Output <i>(Maximum current output 750 milliamps)</i>
2	Common Ground
3	Push Button Input <i>(normally open contacts)</i> <i>(Push button, radio control, keypad, etc.)</i>
4	PhotoEye Open Direction N/C Input <i>SW1 Switch 7 must be on. No 10K resistor.</i>
5	Electric Gate Lock output +12 vdc
6	Contact Edge N/O (with 10K resistor) connection monitored entrapment <i>SW1 switch 2 must be ON when monitored edge is connected</i>
7	Common Ground Input
8	PhotoEye Closed Direction N/C Input <i>SW1 Switch 8 must be on. No 10K resistor.</i>
9	Free Exit / Open Input <i>(normally open contacts)</i> <i>Loop input or any hold open input such as a 7-day timer, telephone access unit, or maintain contact switch (normally open contacts). These devices open the gate and will prevent the gate from closing if the contact is maintained. Once the contacts have been released, the gate can be closed with a closed signal device or the automatic close timer feature. Receiver relay2 pre-wired for latching open.</i>
10	Not Used
11	Safety Loop / Photo-eye / Reversing Edge Input used for vehicular protection devices. <i>(normally open contacts) *No 10K resistor - remove if installed</i>
12	Photo Eye Power +12 vdc output 750 ma max current <i>Only present when SW1 switch 10 is ON and gate is moving or SW1 switch 3 and 4 are OFF and SW1 switch 10 is ON used for installation.</i>

Red wire

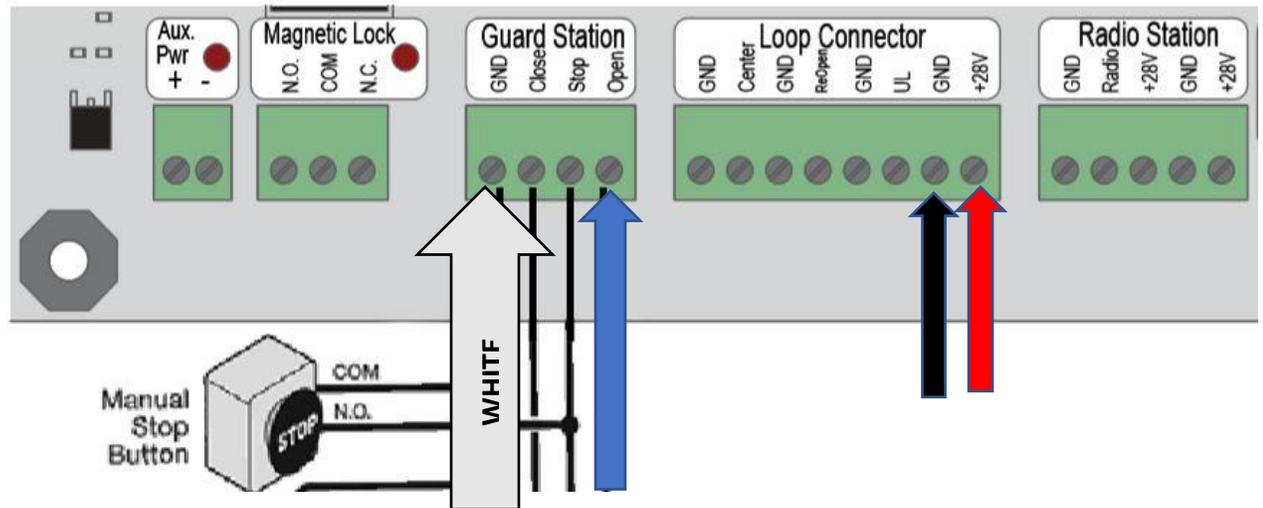
Black wire

White wire

Blue wire

## CP-4 to Viking E-4 Wiring Diagram

refer to "Appendix (A)" on pages 37-38.



### CP-4

Red Wire on Loop Connector +28V

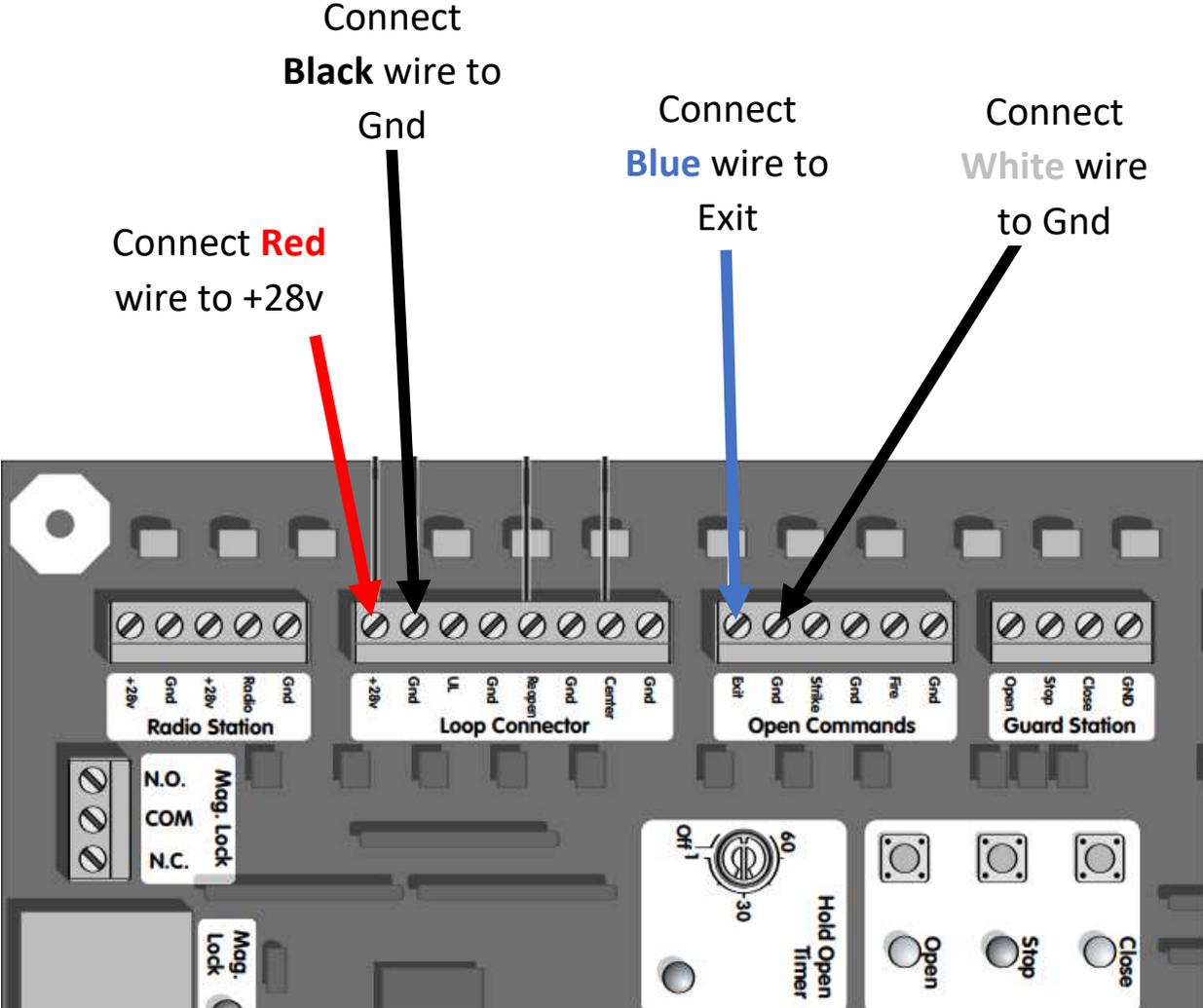
Black Wire on Loop Connector GND (Ground)

White Wire on Guard Station GND (Ground)

Blue Wire on Guard Station OPEN

Yellow Wire is not used.

# Wiring for CP-4 to Viking R-6



Yellow wire is not needed