

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

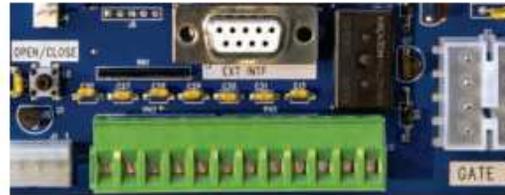
US Automatic Sentry 300 Gate

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