Line Voltage Power Connections

Always use and follow Installation Instructions.

Mount the panel enclosure – Mount the CX panel securely to building structure in accordance with local code requirements. Do not place panel door to prevent enclosure.

Mounting holes are located such that no additional disassembly is required to complete mounting. Mounting hardware is included in the CX Panel Installation Instructions.

Install Individual Relay Cards as required – When panels include different combinations of relay inputs, this must be installed individually for each panel. Control power must be disconnected to the panel if relays are to be included in the panel. Once installation of line and low voltage inputs is complete, restore control power to the panel.

Install Low Voltage Input Leads – These leads are color coded based on the color code used for the unit of primary control’s line and low voltage input. Each color code is indicative of the type and location of the input device and to allow for panels to include any device type. Any type of low voltage input including switches, motion sensors or photocells, etc., may be used as an input and/or input device. Any input is software assignable as to type and location. Any input or relay card may be connected to any relay or group of relays.

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Input terminals of relay cards must be terminating in the connection of the line source Primary Power. Any circuit designation of the source line may be jumpped or aliased to the same supply circuit may be jumpped or aliased. A plug connection is provided for the low voltage control power to allow for safe removal and replacement of relay cards.

Control Panel Power/Transformer/Power Supply – The connection of primary power input is variable voltage based on the connection to the line voltage power supply. Secondary voltage to the panel is derived from AC/DC. Different voltage transformers are used to accommodate a wide variety of primary source voltages. Lighting circuits are connected to the transformer for various input supply voltages. These leads are located inside the panel door hinge. Each transformer has multi-tap control power circuit terminals. Relay Main Menu, Motion Sensors or Photocells may be connected to any input. Each transformer may be manually switched on or off by using the Main Menu. The relay main menu will be used when using output terminals to be connected and therefore input will usually operate relays with low current input will not be connected or acidified.Illuminated control power is connected.

Low Voltage Control Circuit Terminals – All terminals are used to accommodate small gauge primary power and terminals are connected to the transformer for various input supply voltages. These leads are located inside the panel door hinge. Each transformer has multi-tap control power circuit terminals. Relay Main Menu, Motion Sensors or Photocells may be connected to any input. Each transformer may be manually switched on or off by using the Main Menu. The relay main menu will be used when using output terminals to be connected and therefore input will usually operate relays with low current input will not be connected or acidified.Illuminated control power is connected.

Low Voltage Main Menu – The CX Panel provides access to all programming choices in various screens. Each key press or activation of the CX panel will change the display by enabling or disabling choices, etc. Individual relay cards are available to complete multiple relay options. Each screen is highlighted.

Low Voltage Device Input Wiring Diagrams

Motion Sensors

Photocells

Low Voltage Switches

Low Voltage Switch with LED

Function Keys – These keys provide programming choices in various screens. Key labels appear on screens when keys are available.

Navigation Keys – Locate and select programming choices by using the navigation keys to select or to select programming choices.

Enter Key – This key takes the user to the previous screen when keys are available.

Help Key – Key takes the user to the help screen when keys are available. Each help screen is highlighted.

LEDs – These LEDs provide access to all programming choices in various screens. Each key press or activation of the CX panel will change the display by enabling or disabling choices, etc. Individual relay cards are available to complete multiple relay options. Each screen is highlighted.

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Main Menu – The CX Main Menu provides access to all programming choices in various screens. Each key press or activation of the CX panel will change the display by enabling or disabling choices, etc. Individual relay cards are available to complete multiple relay options. Each screen is highlighted.
**CX Panels – Programming Guide**

### General System Settings
The CX Panel System offers a wide variety of settings that allow for different uses of the system. The basic settings required for most systems are Time and Date, Time Zone, and Astro Clock Settings.

1. From the Main Menu, select System Settings, and then press ENTER.
2. Select General System Settings, and then press ENTER.
3. Enter the Time and Time Zone in the appropriate fields using the alphanumeric keypad.
4. Scroll down to [SAVE] and press ENTER to finish.

### Astro Clock Settings
1. From the Main Menu, select System Settings, and then press ENTER.
2. Select Astro Clock Settings, and then press ENTER.
3. Scroll down to the Time Zone field and use the RIGHT and LEFT arrow keys to select the appropriate time zone for your area.
4. Scroll down to [SAVE] and press ENTER to finish.

**EXAMPLE SCENARIO: Manual Switch ON/Auto Motion OFF – 5 EASY STEPS**

**Basic Programming Functions**

1. From the Main Menu, select System Settings, and then press ENTER.
2. Select General System Settings, and then press ENTER.
3. Enter the Date and Time in the appropriate fields using the alphanumeric keypad.
4. Scroll down to [SAVE] and press ENTER to finish.

**Inputs**

1. From the Main Menu, select Inputs, and then press ENTER.
2. SELECT Switch Input, and then press ENTER. Use the RIGHT and LEFT arrow keys to toggle to the desired input type.
3. Edit the name field using the alphanumeric keypad.
4. SELECT <Switch> in the Type field.
5. Edit the name field using the alphanumeric keypad.
6. SELECT [CHANGE] in the Control field.
7. Select the Relay or Group to be controlled and then press ENTER.
8. Input the schedule times in the appropriate fields, and then press ENTER.
9. Scroll down to [SAVE] and press ENTER to finish.

**Outputs**

1. From the Main Menu, select Outputs, and then press ENTER.
2. SELECT Relay or Group, and then press ENTER.
3. Select the relays to be included in the group, and then press ENTER.
4. Scroll down to [SAVE] and press ENTER to finish.

**Use of Scenarios**

The General System Menu allows for the application of pre-programmed Indoor and Outdoor templates. The User only needs to input a few key information relating to the system, and the scenario is automatically populated data specific to that system. This significantly reduces the time necessary to complete programming. Additionally, scenarios have been tested for proper performance and assure the User that all required settings will work correctly.

**EXAMPLE SCENARIO: Manual Switch ON/Auto Motion OFF – 5 EASY STEPS**

1. From the Main Menu, select System Settings, and then press ENTER.
2. Select General System Settings, and then press ENTER.
3. Enter the Date and Time in the appropriate fields using the alphanumeric keypad.
4. Scroll down to [SAVE] and press ENTER to finish.

**Schedules**

1. From the Main Menu, select Schedules, and then press ENTER.
2. SELECT A Schedule, and then press ENTER. The solid box next to the group number indicates that it has been programmed.
3. From the Main Menu, select Schedules, and then press ENTER.
4. Scroll down to [SAVE] and press ENTER to finish.

**Groups**

1. From the Main Menu, select Groups, and then press ENTER.
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3. Select the relays to be included in the group, and then press ENTER.
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