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PL-1 Single-Channel X10™ Controller

Wiring Connections

+12V: Power Input, 12 Volts DC.

GND: Power Input, ground.

TRG IN: Trigger Input, accepts 5V to 24V DC trigger voltage (“+” trigger) or pull to ground (“-” trigger).

GND: Ground terminal. Connect to triggering device’s ground.

J1 (RJ-11 Jack): Connect to an X10 PL513 or PSC04 1-way interface (not included) using a standard 4-wire telephone cable.

JP1 Mini-Jumper: Set to “- TRIG” when triggering with an active-low output device or dry contact switch or relay. Set to “+ TRIG” when triggering with a positive voltage output device.

Programming the PL-1 (All Settings Saved to EEPROM)

The PL-1 ships pre-programmed for X10 House Code ‘A’, Unit ‘1’. To change the House Code, press and hold the HOUSE switch for 3 seconds. The STATUS LED will blink once for each letter of the alphabet for the programmed House Code (1 blink for ‘A’, 2 for ‘B’, 3 for ‘C’, etc.). Release the HOUSE switch, then press once for each letter of the alphabet of the new House Code, holding the switch down on the last press. The STATUS LED will blink the new House Code setting back for verification. Release the switch as soon as the LED starts blinking. Valid House Code entries are A – P (1 – 16 blinks).

Example: Change House Code to ‘E’. Press and hold the HOUSE switch until STATUS blinks. Release switch. When blinking stops, press the HOUSE switch 5 times (A, B, C, D, E), holding the switch down on the 5th press. STATUS will blink the new value back for verification. Release the switch when STATUS begins blinking. House Code is now set to ‘E’.

To change the X10 Unit number, use the same procedure with the UNIT switch: Hold the UNIT switch for 3 seconds and wait for STATUS to flash. Press the UNIT switch once for each value of the desired Unit number. Hold the last press until STATUS begins to flash. Valid Unit numbers are 1 – 16.

Hint: To test your settings, press the HOUSE switch to send an ON command. Press the UNIT switch to send an OFF command. Make sure to set your X10 lamp or appliance modules to the same House and Unit Codes as the PL-1.

Flash Mode (Default = Disabled)

When enabled, Flash Mode will alternately send “ALL LIGHTS ON” and “ALL UNITS OFF” once per second while the TRG IN terminal is active. Flash Mode is useful when the PL-1 is triggered by an alarm system’s burg output. To toggle Flash Mode, simultaneously press and hold the HOUSE and UNIT switches until the STATUS LED flashes. STATUS will remain on for 15 seconds when Flash Mode is enabled. To program all lights to remain ON after a Flash Mode event (default), press HOUSE while STATUS is still on. To program all units to be OFF after a Flash Mode event, press UNIT while STATUS is still on.

Note: ALL LIGHTS ON and ALL UNITS OFF commands apply to all units in a given House Code. The Unit setting has no effect.

Wiring Examples

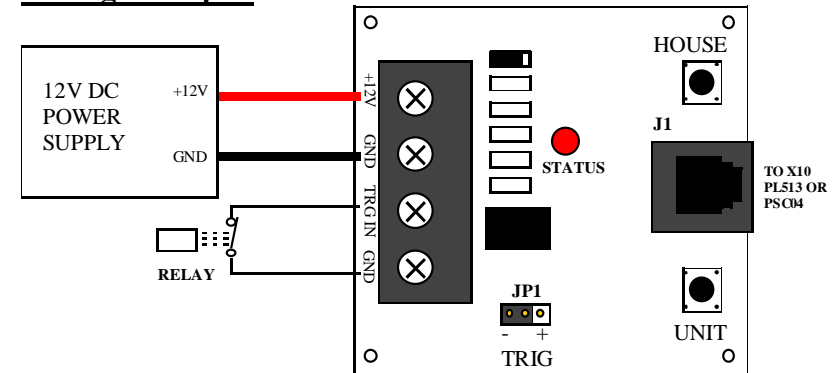


Figure 1: Trigger with Relay Contacts or Active-Low Output Device

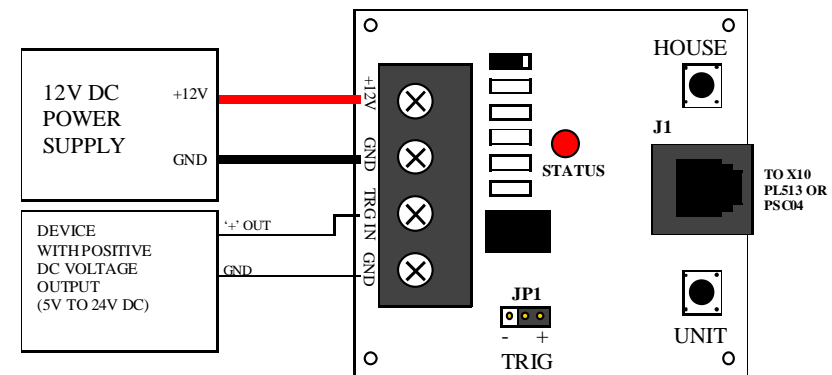


Figure 2: Trigger with Positive Voltage Output