

Rough-In Panel

HWI-PNL-8
HWI-PNL-5

Installation Instructions

Please Read Before Installing

HWI-PNL-8-CE
HWI-PNL-5-CE

Use these instructions to install the model numbers listed above.

Important Notes

Codes: All wiring must be installed in accordance with all local and national electrical codes.

Cooling: This equipment is air-cooled. Mount in a place where the vented cover will not be blocked. Clearance of 12 in (304 mm) is required in front of the unit.

Environment: This equipment is intended for indoor use only; in a 32 °F to 104 °F (0 °C to 40 °C) setting with a relative humidity less than 90%, non-condensing

Mounting Location: Modules will hum slightly and internal relays will click while in use. Mount in a location where such noise is acceptable.

Mount panel so that line voltage wiring will be at least 6 ft (1.8 m) from audio or electronic equipment and its wiring.

Installation

- 1. Mount Rough-In Panel** using one of the following methods (mounting hardware is not provided):

a. Surface Mount – Use keyholes with bolts sufficient for 100 lb (45 kg) load, M6 [0.25 in (6.35 mm)] bolts recommended.

b. Recess Mount – Use screws sufficient for 100 lb (45 kg) through the corners of the panel. Mount panel flush to or not more than 1/8 in (3 mm) below the finished wall surface. Panel is 4 1/8 in (105 mm) deep past cover mounting holes. When recess mounting PNL-8 models in a 2x4 stud bay, the sheetrock must be built out or a frame must be constructed (to accommodate the panel depth). HWI-PNL-8 cover dimensions are 59 1/2 in x 15 1/8 in (1511 mm x 403 mm). HWI-PNL-5 cover dimensions are 32 1/2 in x 15 1/8 in (830 mm x 403 mm).

- 2. Run power wiring** into the panel.

⚠ WARNING – Shock Hazard. Wiring with power on can result in serious injury or death. To avoid the risk of electric shock, locate and lock supply breaker in the OFF position before removing terminal shield.

Model #	Control Rating	Module Input Rating
PNL8 PNL5	120 V 50/60 Hz 2A Lutron recommends a dedicated feed for control	120 V, 50/60 Hz 1 Phase 2 Wire, 15 A or 20 A
PNL8-CE PNL5-CE	220-240 V 50/60 Hz 2A Lutron recommends a dedicated feed for control	220-240 V, 50/60 Hz 1 Phase 2 Wire, See instruction sheet for your module for Amperage Ratings

Locations to run power wiring into the panel are shown in **Figure 2**. Dress the wire to the left side of the terminal blocks (modules will be to the right of the terminal blocks as shown in **Figure 2**). Terminal blocks will accept one 18 AWG to 10 AWG (0.75 mm² to 6.0 mm²) wire or two 18 AWG to 16 AWG (0.75 mm² to 1.5 mm²) wires. Tighten terminal blocks to 3.5 to 5 in-lb (0.40 to 0.57 N•m). Do not overtighten.

Technical Assistance:
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- 3. Install load wiring.**

⚠ WARNING – Shock Hazard. Wiring with power on can result in serious injury or death. To avoid the risk of electric shock, locate and lock supply breaker in the OFF position before removing terminal shield.

Each module controls up to 4 loads. Wiring for HW-RPM-4A/4U/4E/4FSQ modules is shown in **Figure 3**. (Wiring for modules HWI-RPM-4M and -4R will differ. Refer to the installation instructions packaged with the module.)

Label each wire clearly as you wire it to the terminal blocks.

NOTE: Refer to module install sheet for maximum ratings. Exceeding the maximum can damage the module.

NOTE: If a module location will be used with an HWI-RPM-4M or HWI-RPM-4R module, tie off the load wiring with a wire connector rather than terminating it to the terminal blocks. New replacement terminal blocks will be provided with these modules.

- 4. Install Processor / Module Interface feed** using Feed Plugs shown in **Figure 4** or **Figure 5**. This feed will draw a maximum of 2 A. Lutron recommends that a dedicated feed be used for this purpose. Leave this circuit breaker off until the processor or module interface is installed.

For increased system reliability, HomeWorks® processors can be powered by an uninterruptible power supply (UPS) that incorporates overvoltage protection, brown-out protection, and battery backup. When selecting a UPS, allow 240 VA of capacity for each processor on the UPS. A single large UPS for all processors is better than an individual UPS for each processor. This prevents inconsistent system operation on battery backup if the individual UPS units power down at different times.

- 5. Test all load wiring.** Turn on input power to the module locations. Check all connected lighting to ensure it is on. If a circuit breaker trips, a wiring error exists and must be resolved. The pre-installed bypass jumpers will distribute power to each load and must not be removed until after all loads are fully tested and all modules are installed.

NOTE: Do not remove bypass jumpers at this time. They will be removed after the modules are installed.

- 6. Install cover.** Ensure vents are on the right hand side of the cover, over the module area. Tighten cover screws to 20 in-lb (2.3 N•m).

- 7. If there are remaining products to be installed, leave this instruction sheet in a safe accessible location.**

Figure 1 – Panel Dimensions

All dimensions are shown as in (mm)

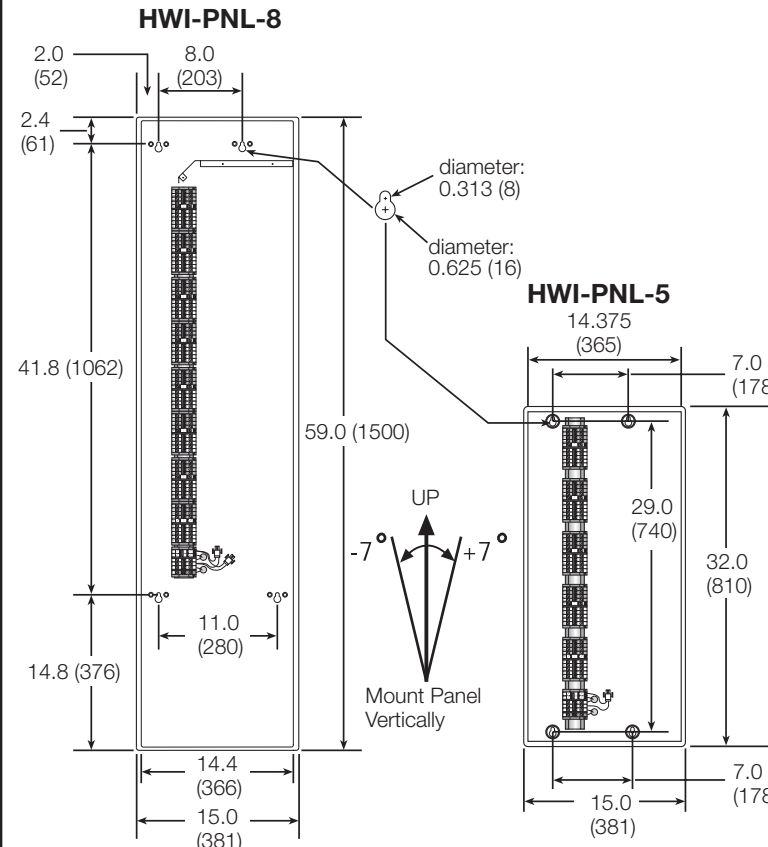
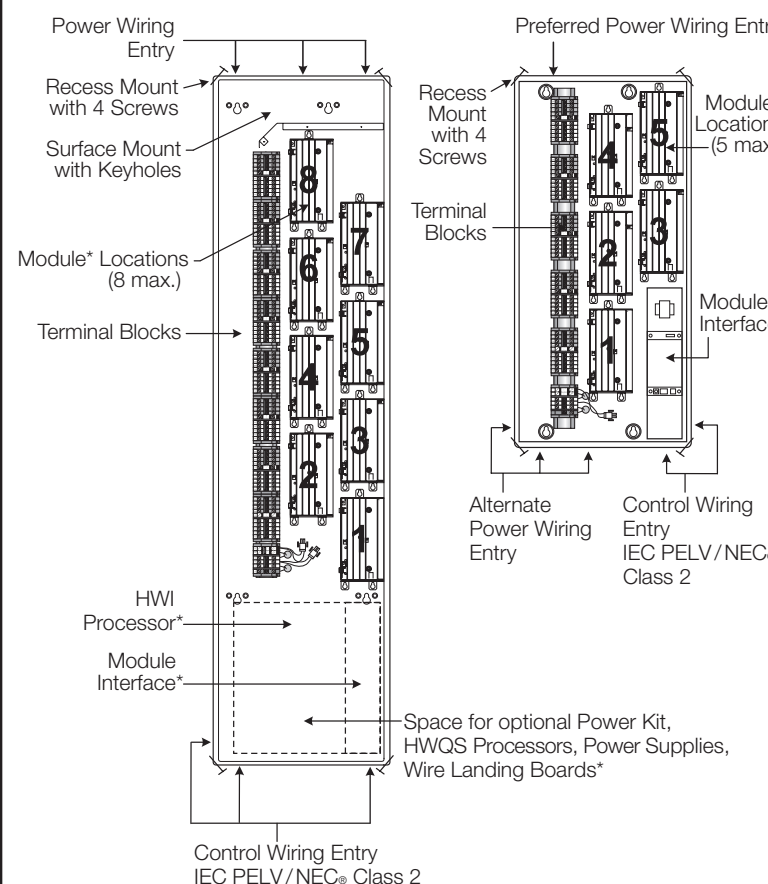
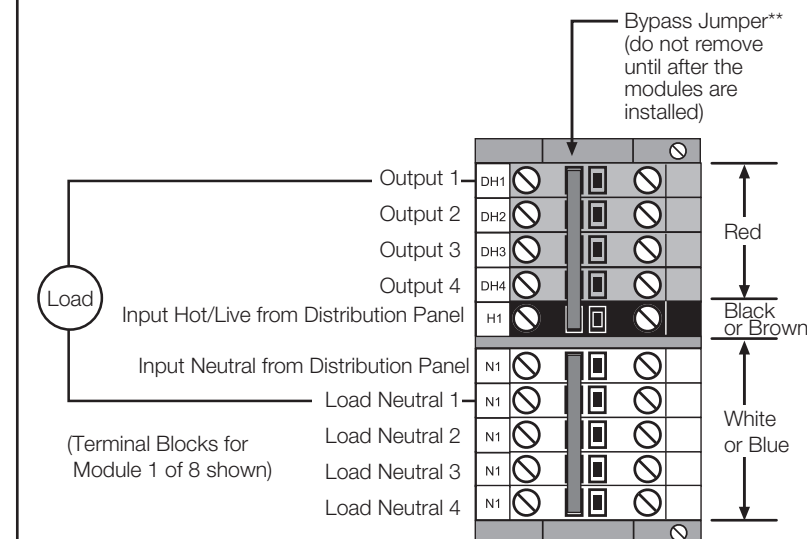


Figure 2 – Wire Entry and Panel Mounting



* Components sold separately

Figure 3 – Module Wiring (HW-RPM-4A, HW-RPM-4U, HW-RPM-4E, and HW-RPM-4FSQ only)

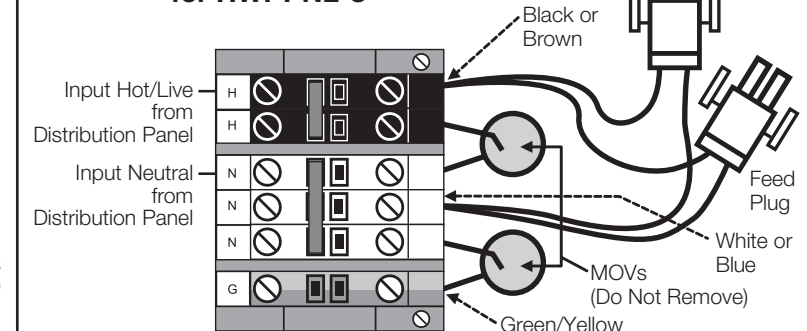


Torque terminal blocks from 3.5 to 5 in-lb (0.4 to 0.57 N•m)

** Push-in style bypass jumper shown. (-CE versions use screw-in style bypass jumper.)

Note: HWI-PNL-8 shown, markings on your unit may vary

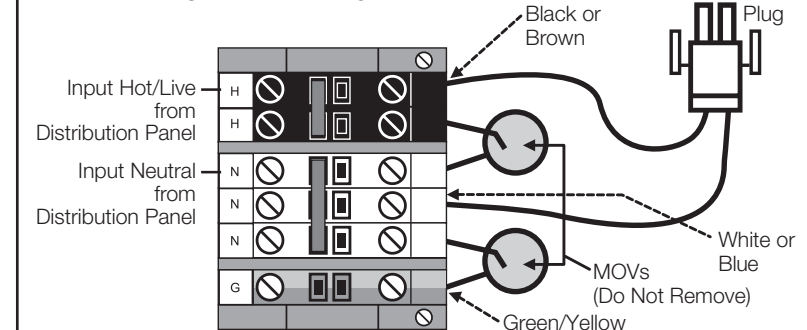
Figure 4 – Dedicated Control Assembly Feed for HWI-PNL-8



Torque terminal blocks from 3.5 to 5 in-lb (0.4 to 0.57 N•m)

NOTE: One feed plug is included for use with the optional module interface or HWI Processor. An extra feed plug is provided for use with optional power kit (available as Lutron® p/n PNL-8-PWRKIT).

Figure 5 – Dedicated Control Assembly Feed for HWI-PNL-5



Torque terminal blocks from 3.5 to 5 in-lb (0.4 to 0.57 N•m)

NOTE: A feed plug is included for use with the optional module interface.

Warranty: For warranty information, please see the Warranty enclosed with the product, or visit http://www.lutron.com/TechnicalDocumentLibrary/HomeWorks_Warranty.pdf