

Installation Instructions

Low-Voltage Rough-In Enclosure HWI-LV32-CE 220-240 V~, 50/60 Hz, 1 A max.

1. **Mount Rough-In Enclosure** using one of the following methods (mounting hardware is not provided):
 - a. **Surface Mount** - Use keyholes shown in Figure 1 with bolts sufficient for 45 kg (100 lbs.) load M6 (1/4") bolts recommended.
 - b. **Recess Mount** - Use screws sufficient for 45 kg (100 lbs.) through the corners of the enclosure (see Figure 1). Mount enclosure flush to or not more than 3mm (1/8") below the finished wall surface. Enclosure is 9.8cm (3-7/8") deep past cover mounting tabs. Enclosure cover dimensions are 83cm x 40cm (32-1/2" x 15-7/8").



Caution - Power supply will hum slightly and internal relays will click while in use. Mount in a location where such noise is acceptable.



Caution - All wiring must be installed in accordance with national and local electrical codes.



Caution - This equipment is air-cooled. Mount in a location where the vented cover will not be blocked. 30cm (12") of clearance in front of the vents is required.



Danger - Locate and lock supply breaker in the OFF position before wiring to terminal blocks or plugging in power cord.



Caution - This equipment is intended for indoor use only.

2. **Run 220–240V power wiring into the enclosure.** Locations to run power wiring into the enclosure are shown in Figure 1. Terminal blocks will accept one 1–4mm² (18–10 AWG) wire or two 1–1.5mm² (18 or 16 AWG) wires (see Figure 2). Tighten terminal blocks to .40 to .57 Nm (3.5 to 5 in.-lbs.). Do not overtighten.

For increased system reliability, *HomeWorks* processors can be powered by an Uninterruptible Power Supply (UPS) that incorporates surge protection, brown-out protection, and battery backup. When selecting a UPS, allow 240VA 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.

3. **If the processor and the accessory boards have not been installed, leave this instruction sheet in the enclosure.**
4. **Install the *HomeWorks* Wired Processor.** Install processor in location shown in Figure 3 using the screws installed in the enclosure. Torque mounting screws to 2.26 Nm (20 in. lbs.) max. Connect power cord from the processor assembly to the plug coming from the terminal blocks (see Figure 3).

Figure 1 - Enclosure Dimensions

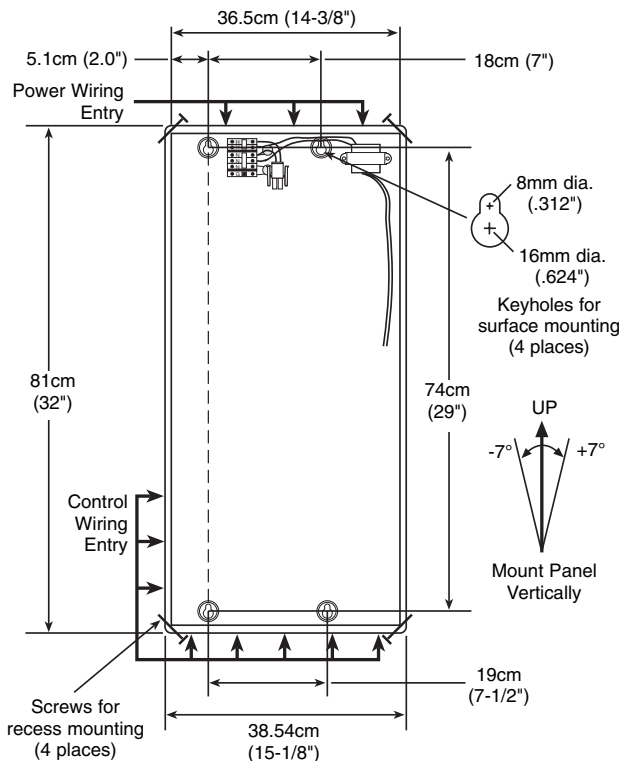


Figure 2 - Dedicated Processor Assembly Feed

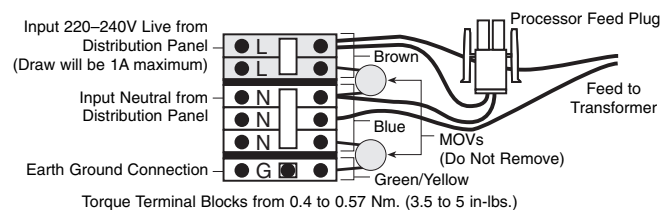
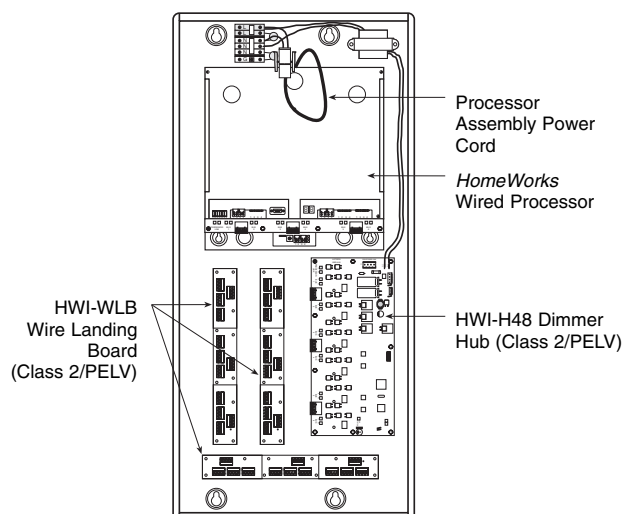


Figure 3 - Dimmer Hub Configuration





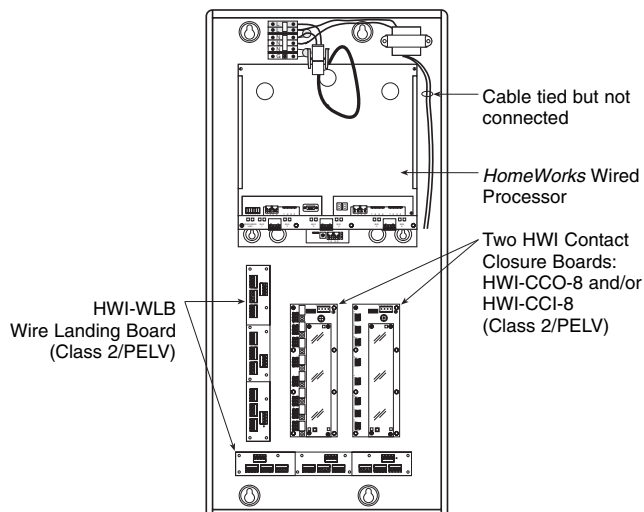
Danger - Ensure the processor feed breaker (MCB) is off when wiring or plugging in the Processor Assembly Power Cord.

5. Install Low-Voltage Accessory Boards in accordance with instructions provided with the boards. Two configurations are possible (not every board need be installed for a given configuration):

- a. **Dimmer Hub Configuration** - Install one HWI-H48 Dimmer Hub and up to three HWI-WLB Wire Landing Boards as shown in Figure 3. The upper left corner mounting hole for the Dimmer Hub is identified by a pink dot on the rough-in enclosure. The upper left corner mounting hole for the Wire Landing Boards are identified by green dots on the rough-in enclosure. Connect earth ground wires to the enclosure using any convenient holes.
- b. **Contact Closure Board Configuration** - Install up to two Contact Closure Boards (HWI-CCO-8 or HWI-CCI-8) and up to two HWI-WLB Wire Landing Boards as shown in Figure 4. The upper left corner mounting holes for the Contact Closure Boards are identified by orange dots on the rough-in enclosure. The upper left corner mounting holes for the Wire Landing Boards are identified by the green dots on the rough-in enclosure. Connect earth ground wires to the enclosure using any convenient holes.

6. Install cover. Ensure vents are on the right hand side of the cover. Tighten screws to 2.3 Nm (20 in-lbs.).

Figure 4 - Contact Closure Board Configuration



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7200 Suter Road
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Made and printed in the U.S.A. 2/03 P/N 043-126 Rev. A