

# Low-Voltage Enclosures

4/8 Series
Panels & Enclosures
N/A
N/A

Low-voltage enclosures are available in various sizes, each of which may be either surface-mounted or flush-mounted in an electrical closet or equipment room. Both the number of enclosures and the types of components within them are customized to fit the size, lighting plan, and design of a home. Low-voltage enclosures can be distributed throughout the home near the rooms they are controlling, to provide maximum flexibility during installation of the low-voltage wiring. Low-voltage enclosures cannot house remote power modules (RPMs).

## **32-INCH LOW-VOLTAGE ENCLOSURE** **(MODEL # HWI-LV32-120)**

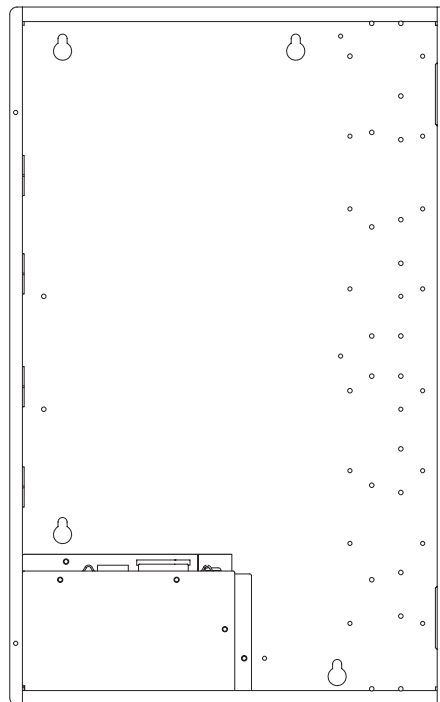
Thirty-two-inch low-voltage enclosures accommodate several components including 8 Series processors, dimmer interfaces (HWI-D48-120 or HWI-H48), wired contact closure interfaces (HWI-CCO-8 or HWI-CCI-8), and wire landing boards (HWI-WLB).

## **32-INCH CONTACT CLOSURE INTERFACE** **SUBPLATE (MODEL # HWI-SUB32-CC9)**

The HomeWorks® contact closure interface subplate installs in the HWI-LV32-120 enclosure allowing up to nine contact closure interfaces (HWI-CCI-8 or HWI-CCO-8) to be mounted in one panel. Install the HWI-SUB32-CC9 using the three processor mounting screws already installed in the enclosure, plus two additional screws provided with the HWI-SUB32-CC9.

## **24-INCH LOW-VOLTAGE ENCLOSURE** **(MODEL # HWI-LV24-120)**

Twenty-four-inch low-voltage enclosures provide a compact housing for mounting the 4 Series processor and up to two contact closure interfaces (HWI-CCO-8 or HWI-CCI-8) and/or wire landing boards (HWI-WLB). The enclosure accepts one 120 V feed to power the processor, which is self-contained in an enclosed high-voltage area, thus allowing access to only the low-voltage connections when the front cover is removed.



**Low-Voltage Enclosure**  
**(HWI-LV24-120)**

## **17-INCH LOW-VOLTAGE ENCLOSURE** **(MODEL # HWI-LV17-120)**


Seventeen-inch low-voltage enclosures accommodate several components including dimmer interfaces (HWI-D48 or HWI-H48), contact closure interfaces (HWI-CCI-8 or HWI-CCO-8), and wire landing boards (HWI-WLB).

## **10-INCH LOW-VOLTAGE ENCLOSURE** **(MODEL # HWI-ENC-CC)**

The 10-inch low-voltage enclosure accommodates one contact closure interface (HWI-CCI-8 or HWI-CCO-8).

# Low-Voltage Enclosures (cont.)

## 32-inch Low-Voltage Enclosure

Model Number	HWI-LV32-120: 32-inch Low-Voltage Enclosure.
Capacity	One HomeWorks® 8 Series processor, one dimmer interface (HWI-H48 or HWI-D48), three wire landing boards (HWI-WLB). <i>See Fig. 6, pg. 181.</i> One HomeWorks 8 Series processor, two contact closure boards (HWI-CCI-8 or HWI-CCO-8), two wire landing boards (HWI-WLB). <i>See Fig. 6, pg. 181.</i> One contact closure board subplate (HWI-SUB32-CC9). <i>See Fig. 7, pg. 177.</i>
Input Voltage	120 V  50/60 Hz
Regulatory Approvals	UL, CSA, NOM
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Line-Voltage Connections	Use copper wire only, supply conductors 60/75 °C. DIN rail-mounted terminal blocks for power feed for HomeWorks processor (located at top left corner of panel). Terminal blocks should be tightened to 3.5-5.0 in.-lbs. (0.40-0.57 N•m).
DIN Rail Terminal	Terminal blocks will accept one #18-10 AWG (1.0-2.5 mm <sup>2</sup> ) wire or two #18-16 AWG (1.0-1.5 mm <sup>2</sup> ) wires. Terminal blocks should be tightened to 3.5-5.0 in.-lbs. (0.40-0.57 N•m).
Dimensions	14 <sup>3</sup> / <sub>8</sub> in (36.5 cm) x 32 in (81 cm) x 3 <sup>7</sup> / <sub>8</sub> in (9.8 cm)
Mounting	Enclosure can be surface-mounted or flush-mounted. Enclosure fits between standard 16 in (406 mm) on-center stud framing. Mount the enclosure so that line-voltage wiring will be at least 6 feet (1.8 m) from audio or electronic equipment and its wiring. <i>See Fig. 1, pg. 177.</i>
Construction	Enclosure: 16-gauge galvanized sheet metal (unpainted). Cover: Painted (black) metal cover with ventilation holes. Cover is attached using four philips-head screws.
Shipping Weight	18 lbs. (8.2 kg)

## 32-inch Contact Closure Interface Subplate

Model Number	HWI-SUB32-CC9: Contact Closure Interface Subplate.
Capacity	Up to nine contact closure boards (HWI-CCO-8 or HWI-CCI-8) can be installed on the subplate.
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Dimensions	14 in (35.5 cm) x 27 in (68.9 cm)
Mounting	This subplate can only be installed in the HWI-LV32 enclosure.
Construction	Galvanized sheet metal (unpainted).
Shipping Weight	7 lbs. (3.2 kg)

# Low-Voltage Enclosures (cont.)

## 24-inch Low-Voltage Enclosure

Model Number	HWI-LV24-120: 24-inch Low-Voltage Enclosure
Capacity	One HomeWorks® 4 Series processor and two contact closure boards (HWI-CCI-8 or HWI-CCO-8). <i>See Fig. 8, pg. 179.</i> One HomeWorks 4 Series processor and two wire landing boards (HWI-WLB). <i>See Fig. 8, pg. 179.</i>
Input Voltage	120 V $\sim$ 50/60 Hz
Regulatory Approvals	UL, CSA, NOM
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Line-Voltage Connections	Use copper wire only, supply conductors 60/75 °C. Use supplied wire connectors to connect to corresponding power supply terminals.
Dimensions	15 $\frac{1}{8}$ in (39 cm) x 24 in (61 cm) x 4 $\frac{1}{8}$ in (10.5 cm)
Mounting	Enclosure may be surface-mounted or flush-mounted. Enclosure fits between standard 16 in (406 mm) on-center stud framing. Mount the enclosure so that line-voltage wiring will be at least 6 feet (1.8 m) from audio or electronic equipment and its wiring. <i>See Fig. 3, pg. 177.</i>
Construction	Enclosure: 16-gauge galvanized sheet metal (unpainted). Cover: Painted (black) metal cover. Cover is attached using four philips-head screws.
Shipping Weight	17 lbs. (7.7 kgs)

# Low-Voltage Enclosures (cont.)

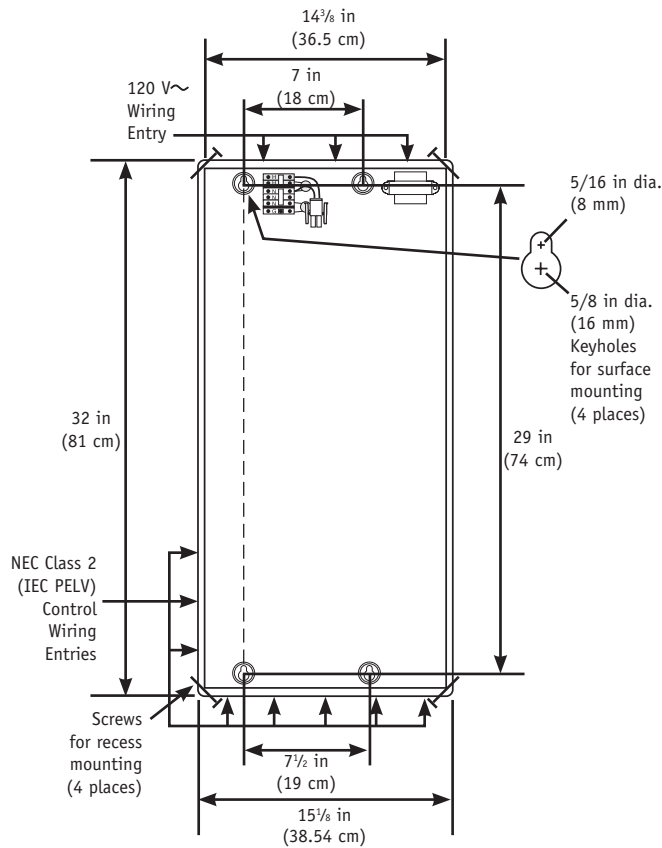
## 17-inch Low-Voltage Enclosure

Model Number	HWI-LV17-120: 17-inch Low-Voltage Enclosure.
Capacity	One dimmer interface (HWI-H48 or HWI-D48) and one wire landing board (HWI-WLB). <i>See Fig. 9, pg. 180.</i> One contact closure board (HWI-CCI-8 or HWI-CCO-8) and one wire landing board (HWI-WLB). <i>See Fig. 9, pg. 180.</i> Two contact closure boards (HWI-CCI-8 or HWI-CCO-8). <i>See Fig. 9, pg. 180.</i>
Input Voltage	120 V $\sim$ 50/60 Hz
Regulatory Approvals	UL, CSA, NOM
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Line-Voltage Connections	Use copper wire only, supply conductors 60/75 °C, 120 V $\sim$ -12 V $\sim$ transformer mounted in top left corner for powering a dimmer interface (HWI-D48 or HWI-H48). Terminal blocks will accept one #18-10 AWG (1.0-2.5 mm <sup>2</sup> ) wire or two #18-16 AWG (1.0-1.5 mm <sup>2</sup> ) wires. Terminal blocks should be tightened to 3.5-5.0 in.-lbs. (0.40-0.57 N•m). <i>See Fig. 4, pg. 177.</i>
Dimensions	9¼ in (23 cm) x 17¼ in (44 cm) x 3⅞ in (9.8 cm)
Mounting	Enclosure may be surface-mounted or flush-mounted. Enclosure fits between standard 16 in (406 mm) on-center stud framing. Mount the enclosure so that line-voltage wiring will be at least 6 feet (1.8 m) from audio or electronic equipment and its wiring. <i>See Fig. 4, pg. 177.</i>
Construction	Enclosure: 16-gauge galvanized sheet metal (unpainted). Cover: Painted (black) metal cover with ventilation holes. Cover is attached using four phillips-head screws.
Shipping Weight	16 lbs. (7.3 kg)

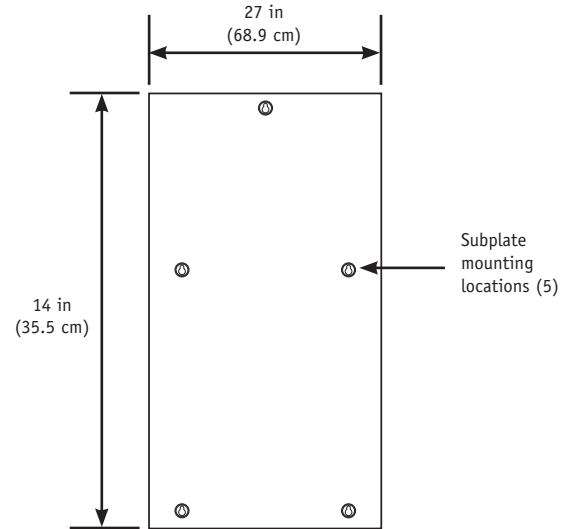
## 10-inch Low-Voltage Enclosure

Model Number	HWI-ENC-CC: 10-inch Low-Voltage Enclosure.
Capacity	One contact closure interface (HWI-CCO-8 or HWI-CCI-8).
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Dimensions	4½ in (10 cm) x 10¼ in (26 cm) x 3⅞ in (9.8 cm)
Mounting	May be surface-mounted or flush-mounted. <i>See Fig. 5, pg. 178.</i>
Construction	Enclosure: 16-gauge galvanized sheet metal (unpainted). Cover: Painted (black) metal cover with ventilation holes. Cover is attached using four phillips-head screws.
Shipping Weight	6 lbs. (2.7 kg)

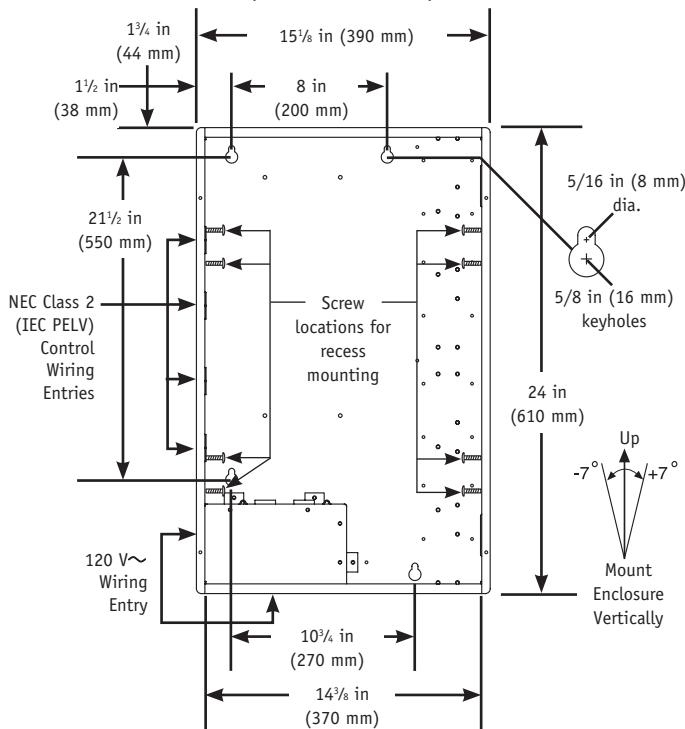
# Low-Voltage Enclosures (cont.)



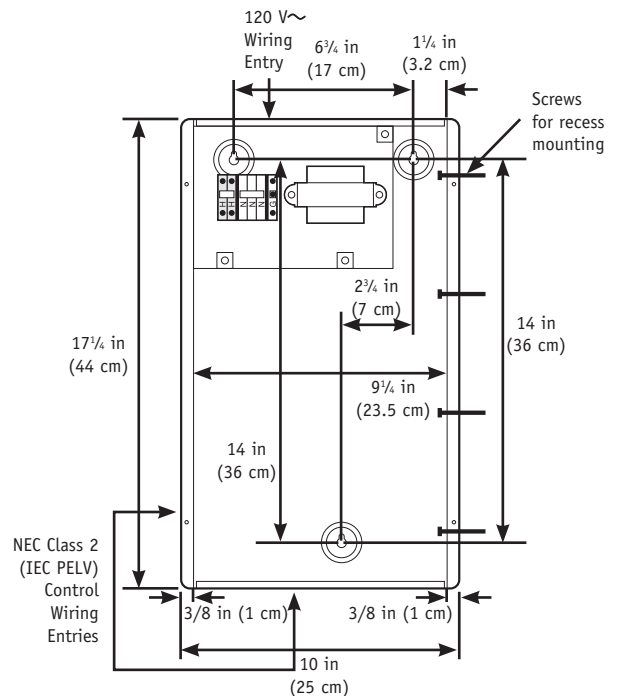
**Figure 1 – Dimensions and Mounting (HWI-LV32-120)**



**Figure 2 – Mounting (HWI-SUB32-CC9)**

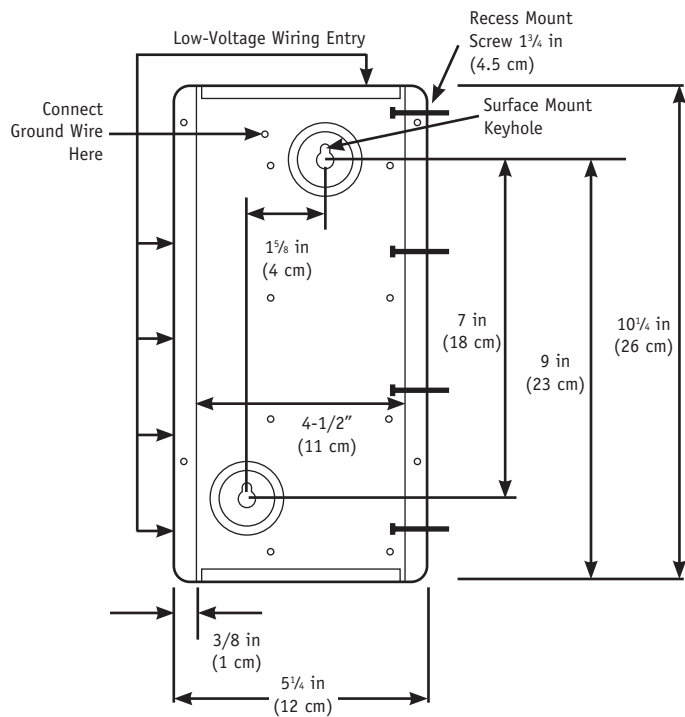


**Figure 3 – Dimensions and Mounting (HWI-LV24-120)**

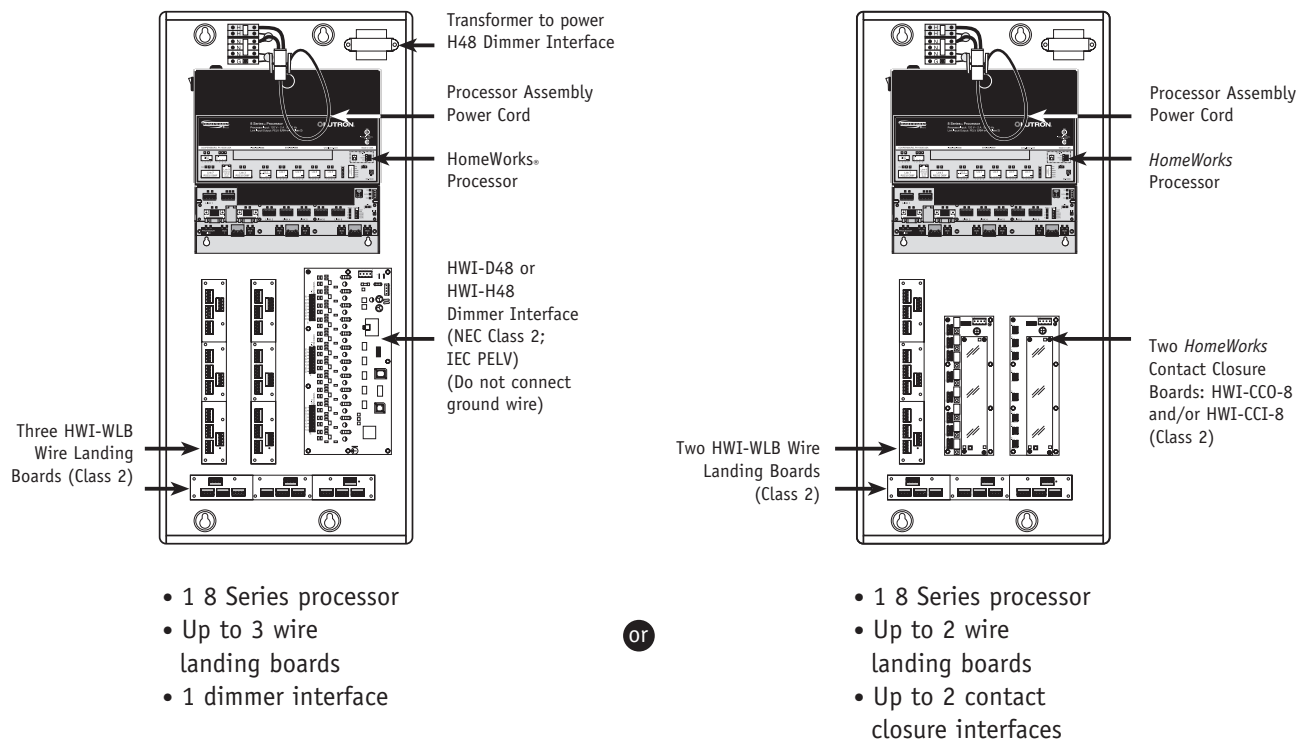


**Figure 4 – Dimensions and Mounting (HWI-LV17-120)**

# Low-Voltage Enclosures (cont.)

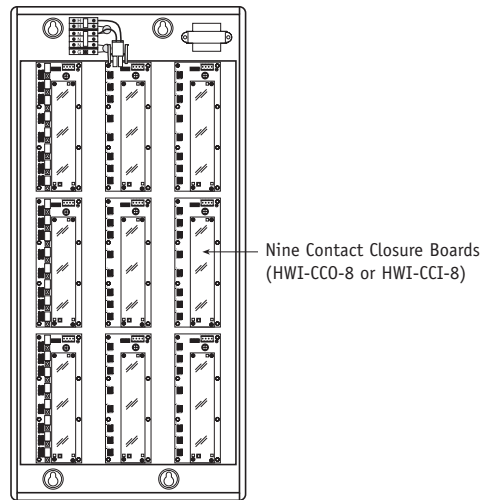


**Figure 5 – Dimensions and Mounting (HWI-ENC-CC)**



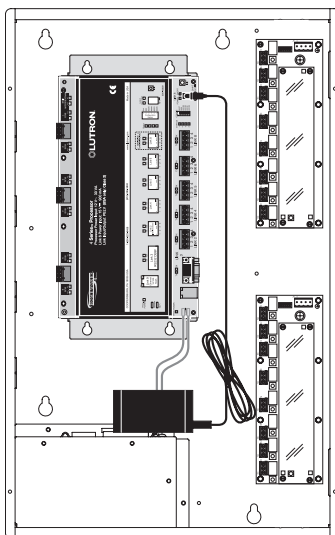
**Figure 6 – HWI-LV32-120 Configurations**

# Low-Voltage Enclosures (cont.)



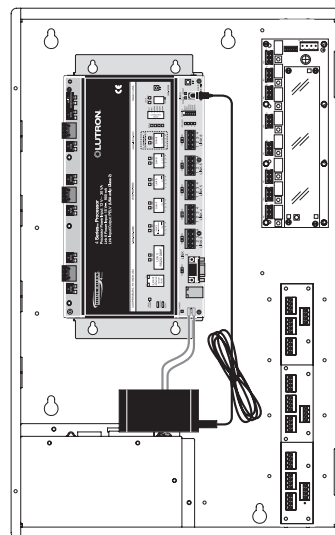
- Up to 9 contact closure interfaces

**Figure 7– HWI-SUB32-CC9 Configuration**



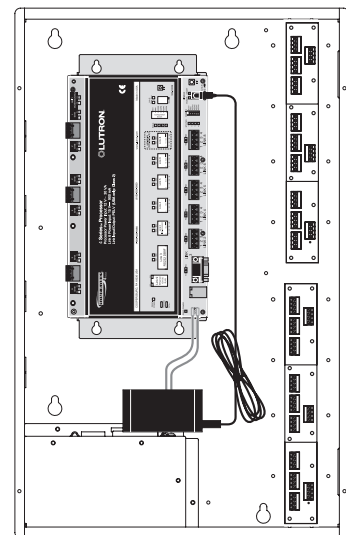
- 1 4 Series processor
- Up to 2 contact closure interfaces

OR



- 1 4 Series processor
- contact closure interface
- wire landing board

OR



- 1 4 Series processor
- Up to 2 wire landing boards

**Figure 8– HWI-LV24-120 Configurations**

BACK ROOM

# Low-Voltage Enclosures (cont.)

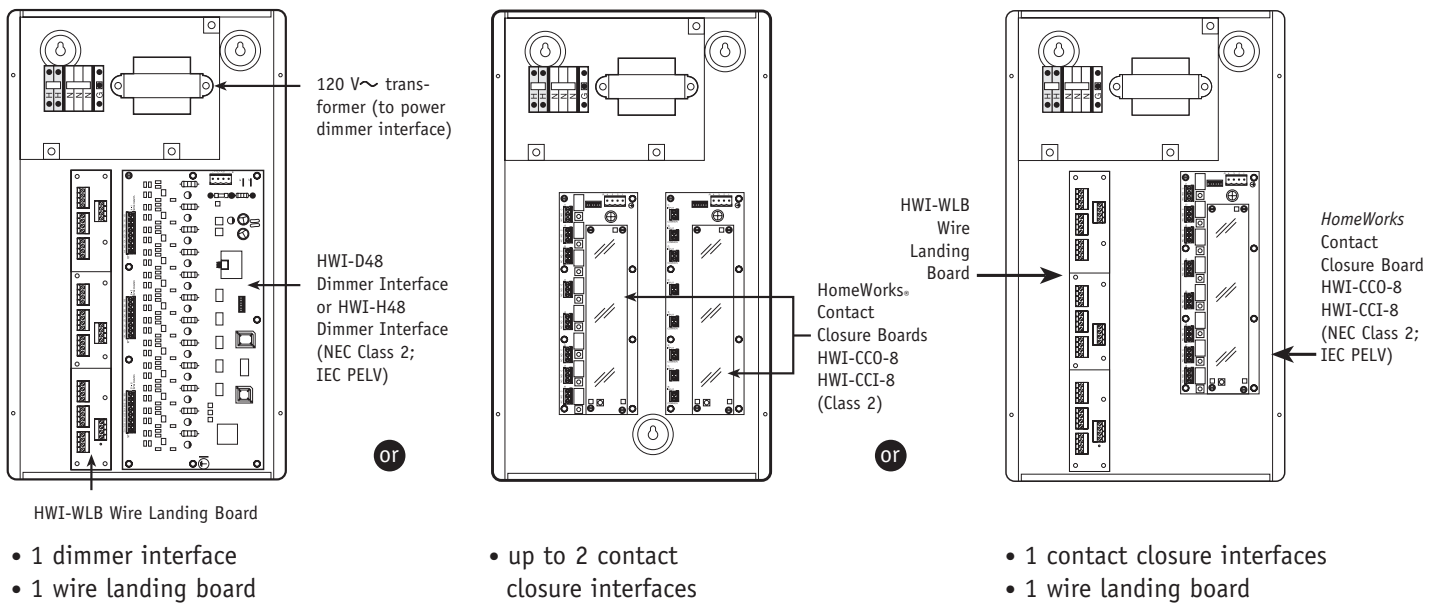
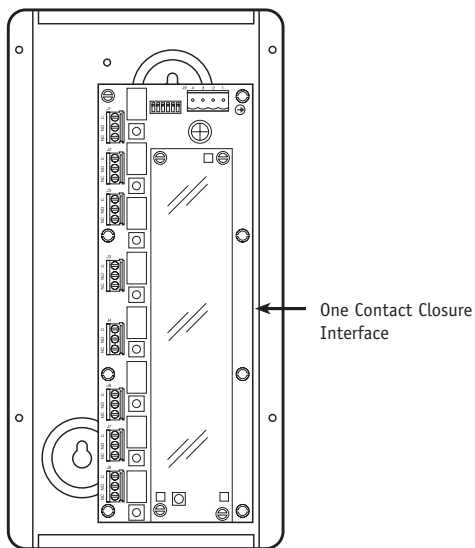


Figure 9 – HWI-LV17-120 Configurations



- 1 contact closure interfaces

Figure 10 – HWI-ENC-CC Configuration

BACK ROOM