

SHP-Pro® ENCLOSURE

Description

The SHP-Pro enclosure, P/N 10-2453-X (See Exhibit 1) is made of 18 gauge steel with a baked on enamel finish (red or gray). It is designed so that it can be surface or flush mounted. Numerous conduit knockouts are provided on all four sides of the enclosure to facilitate easy wiring access into the enclosure. The knockouts allow connection of either ½" or ¾" conduit. The removable exterior door is hinged on the left side of the back-box and is equipped with a key-lock to prevent unauthorized access to system components.

Threaded press-studs are supplied in enclosure back-box for easy installation of the following SHP-Pro system components:

- A. SHP-Pro Controller
- B. AC Power Transformer
- C. Two 18 AH batteries (maximum)

See Exhibit 2 for component layout within the enclosure.

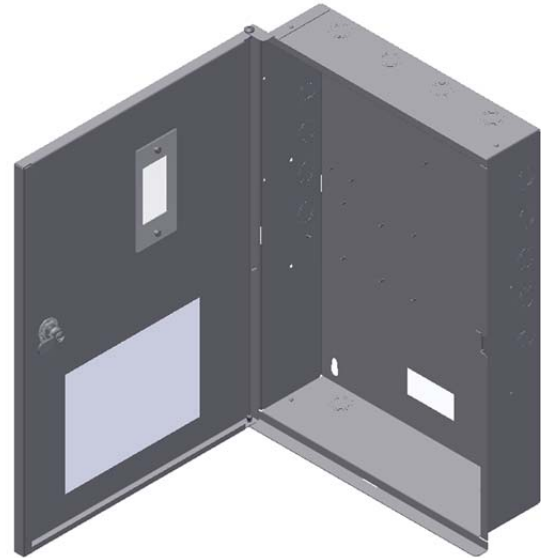


Exhibit 1: SHP-Pro Enclosure

Supplied Mounting Hardware

The following mounting hardware is supplied with the enclosure for future installation of the electronic components. *Store inside the enclosure after installation.*

- 02-12034 Standoff Kit
 - 02-2593 MF Standoff, 1.5" (qty. 5)
- 02-12014 Hardware Kit
 - 02-12025 Key (qty. 1)
 - 4153-142 Lock Washer, #6 (qty. 2)
 - 02-1361 6-32 Hex Nut (qty. 2)
 - 02-4992 Ground Wire (qty. 1)
 - 02-4035 Nut and star washer kit (contains 20 nuts and washers)

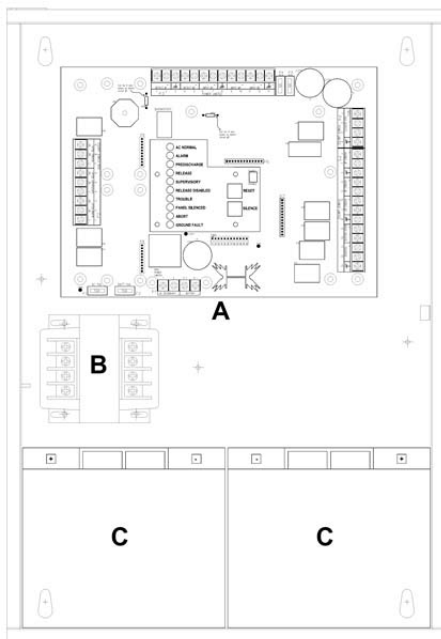


Exhibit 2: Enclosure Layout

Mounting Location

The following guidelines shall be adhered to when selecting the enclosure mounting location:

1. Mount the enclosure on a surface that is vibration free, clean and dry.
2. Mount the enclosure in an area that is free from sources of electromagnetic interference and radio frequency interference; as these are types of problems that could adversely affect the successful operation and useful life of the electronic equipment housed in the enclosure.
3. Mount the enclosure in an environment with a nominal room temperature of 0°-49°C / 32° - 120°F, with a relative humidity of 93 percent.
4. Allow sufficient clearance around the enclosure to allow the door to swing freely.
5. Mount the enclosure at a height that allows easy access to system electronic components for maintenance and service.

Installation

Utilize published standards and references, such as NFPA 70, National Electrical Code, NFPA 72, National Fire Alarm Code, NFPA 2001, Standard for Clean Agent Fire Extinguishing Systems, and others relevant to the Local Authority Having Jurisdiction for the installation of the SHP-Pro enclosure

CAUTION

Do NOT install the electronic assemblies into the back-box until the environment is free from construction dust and debris.

1. Determine the maximum number of conductors needed from the design.
2. Remove selected conduit knockouts. Wire is to be routed into the enclosure back box through provided conduit knockouts. Do not use conduit knockouts located in the bottom of the enclosure if installing batteries within the enclosure.
3. Route wire into the enclosure maintaining separation between power limited and non-power limited field wiring. Fire Alarm System wiring is classified as either power-limited or non-power-limited per NEC Article 760. All power-limited wiring must be separated from all non-power-limited wiring by a minimum distance of ¼" (6 mm). Refer to Exhibit 3 for designation of power limited versus non-power limited areas of the SHP-Pro enclosure.

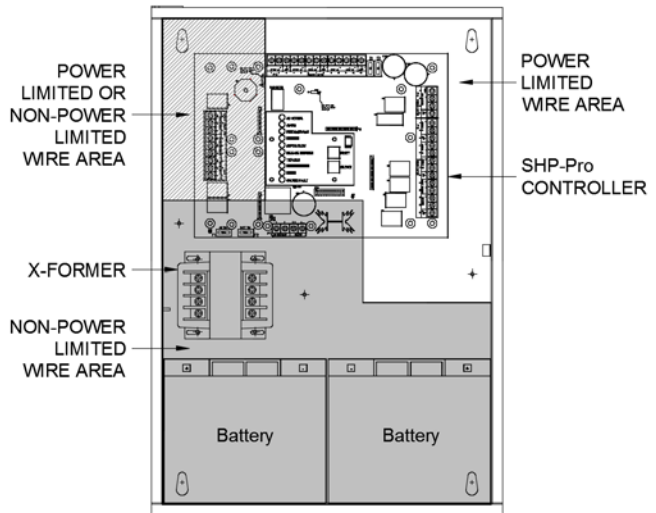


Exhibit 3: SHP-Pro Enclosure Wire Segregation

4. The enclosure's outer door can be temporarily removed to make installation of the back box easier. Remove the outer door by unscrewing the two hinge screws located at the top and bottom.
5. Surface or flush mount the enclosure at the selected location as described below. The enclosure empty weighs approximately 14 lbs. (6.4 kg). See Exhibit 4 for enclosure dimensions.

Surface Mounting

Utilize the four tear-drop openings in the back of the back box to secure it to the mounting surface with suitable anchors.

Flush Mounting

Cut an opening in the wall to fit the back box dimensions and secure the box in place utilizing the four thru holes provided on the sides of the back box.

CAUTION

The enclosure is NOT fire rated. Do not mount on or in a fire rated wall unless wall is properly framed to maintain specific fire rating.

6. Reinstall the outer door (if applicable).
7. Remove the door ground wire from the hardware kit and install as shown in Exhibit 5.
8. Check for continuity between the door and back box after grounding wire installation.
9. After enclosure is clean and free from all construction dust; install electronic components into the enclosure using the installation instructions supplied with each component.

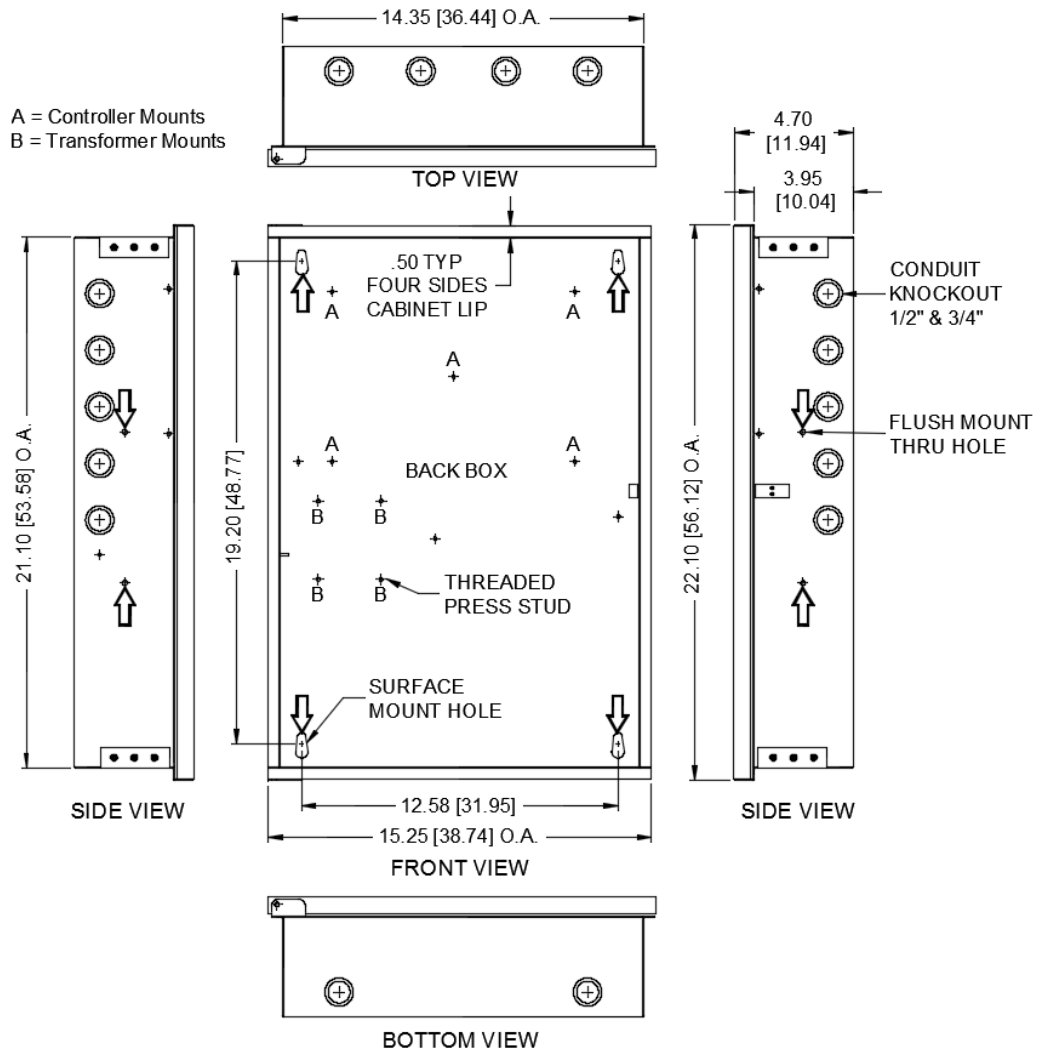


Exhibit 4: Enclosure Dimensions (inches/cm)

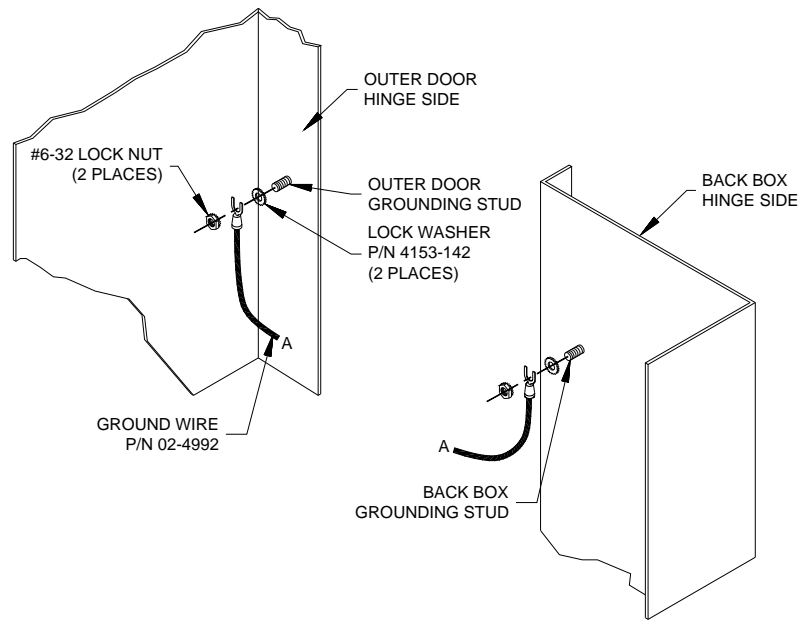


Exhibit 5: Ground Wire Installation

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