

Figure 1 — Wiring diagram for connecting DE Exit Devices to a PS160-6 Power Supply

Installation Instructions

Wire the power supply and exit devices in accordance with the National Electrical Code/NFPA 70/NFPA 72/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

Mount power supply enclosure

- 1 Mount the unit in the desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Use the template shown in Figure 2 if necessary. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws, level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws.
- 2 Secure enclosure to earth ground. See Figure 1 for wire connection details.

Set output voltage

- 3 Set the DC output voltage to 24 VDC by setting switch SW1 to the open position on the power supply board (see Figure 1).

Connect to power

- 4 Secure the green lead to earth ground. Connect AC power (115VAC 60 Hz) to terminals marked [L, G, N] on power supply board. Use 18 AWG or larger for all power connections (Battery, DC output, AC input). Use 22 AWG to 18 AWG for power limited circuits (AC Fail/Low Battery reporting).

- 5 Measure output voltage before connecting devices. This helps avoid potential damage. Keep power limited wiring separate from non-power limited wiring (115VAC / 60 Hz Input, battery wires). Keep the power wiring separate for the power limited wiring a minimum of 0.25 inch (one quarter of an inch).

Note: Adjust the DC output if needed using the potentiometer – shown in the left side of Figure 1 above.

Connect exit devices (no fire panel)

- 6 Connect the delayed egress exit device locking hardware positive leads to terminals marked [6 through 10 POS (+) DC OUTPUT (STAND-BY)] on the MOM5 board and negative leads to terminals marked [NEG 1 through NEG 5] on the MOM5 board.

Note: A 2.2K EOL (End-of-Line) must be installed across terminals marked [TRIGGER] on the MOM5 board or the unit will remain in an alarm condition. See Fig 1.2.

Optional: Connect to fire panel

- 7 To trigger the power supply from a fire alarm control panel (FACP), connect signaling circuit of FACP to terminals marked [- INPUT +] on MOM5 board. See Fig 1.3.

Optional connections

- 8 Connect auxiliary devices triggered by the unit to the terminals marked [DRY OUTPUT NO & C] on MOM5 board for normally open output or terminals marked [DRY OUTPUT NC & C] on MOM5 board for normally closed output (Figure 1).

Note: This relay will energize when the unit is triggered.

- 9 For Access Control applications batteries are optional. When batteries are not used a loss of AC will result in the loss of output voltage. Batteries must be lead acid or gel type if used. Use two 12VDC batteries connected in series for 24VDC operation. (Battery leads included).

- 10 Connect supervisory trouble reporting devices to outputs marked [AC FAIL, LOW BAT] and [Power Fail] supervisory relay outputs marked [NO, C, NC] on power supply board (Figure 1). Use 22 AWG to 18 AWG for AC Fail & Low Battery reporting.

Note: When used in fire alarm, burglar alarm, or access control applications, the "AC Fail" relay must be used to provide a visual indication of AC power on.

- 11 Secure the cover with the provided key lock.

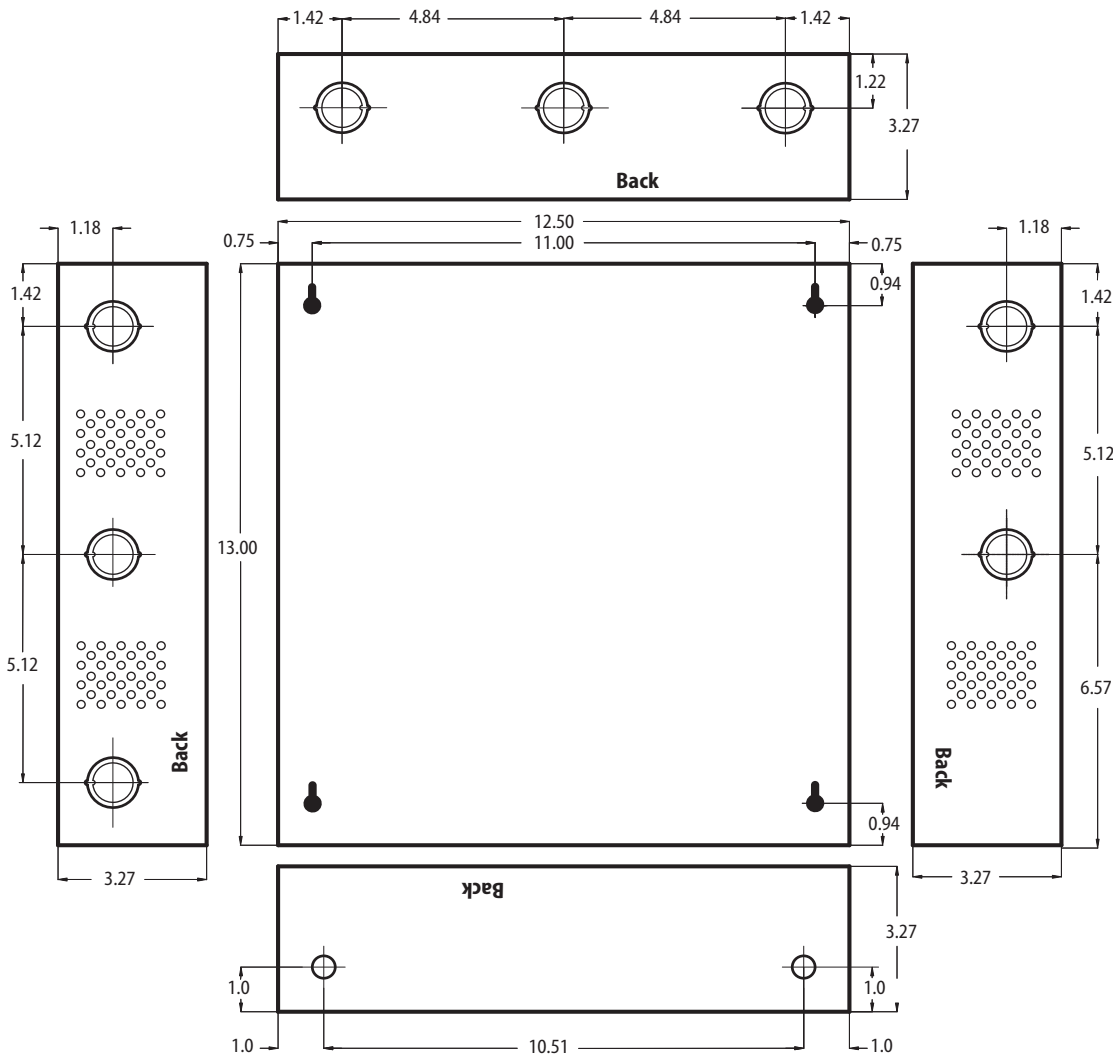
Model PS160-6 Power Supply Installation Instructions

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Units conversion

Inches	mm
0.75	19
0.94	24
1.0	25
1.18	30
1.22	31
1.42	36
3.27	83
4.84	123
5.12	130
6.57	167
10.51	267
11.00	279
12.50	318
13.00	330

Figure 2 — Template for Power Supply enclosure

Notes

- 1 Separation of power limited wiring from non-power limited wiring must be at least 1/4 inch.
- 2 Power must be turned off before changing the voltage select switch.

Specifications for PS160-6 Power Supply

Input voltage	115 VAC @ 60 Hz
Input current	2.5 amps max
Output voltage	24 VDC
Total output current	6 amps
Current limit/output	2 amps/per channel
Outputs	5 (use a maximum of 4)
Ripple voltage	Filtered and electronically regulated outputs
Protection	Thermal and short circuit protection with auto reset Overload protection
Input fuse rating	3.5 amps 250 VAC
Relay output	Form C contact rated 1 amp @ 28 VDC
Battery backup	Built-in charger for sealed lead acid batteries Accommodates up to two 12 VDC/7AH batteries Automatic switch-over to stand-by battery when AC fails
Rated	UL File #S4707 UL 1481 UL Listed for power supplies for Fire Protective Signaling Systems UL 294 UL Listed for Access Control System Units Signal equipment' evaluated to CSA 22.2 N205-M1983 California State Fire Marshal approved NYC Dept of Buildings approved MEA Approved