



273 Branchport Avenue
 Long Branch, NJ 07740
 (800) 631-2148
 www.wheelockinc.com

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**INSTALLATION INSTRUCTIONS
 MODEL PS-12/24-6
 POWERPATH**


Use this product according to this instruction manual. Please keep this instruction manual for future reference.

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NOTE: All **CAUTIONS** and **WARNINGS** are identified by the symbol . All warnings are printed in bold capital letters.

⚠️WARNING: **READ THESE INSTRUCTIONS CAREFULLY. FAILURE TO COMPLY WITH ANY OF THE FOLLOWING INSTRUCTIONS, CAUTIONS AND WARNINGS COULD RESULT IN IMPROPER APPLICATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.**

1. POWERPATH Operation

The **POWERPATH** is a 6 amp 12/24 VDC Power Supply/Charger used for supervision and expanded power driving capability of up to four Notification Appliance Circuits (NAC). Total current of 6 amps, can be divided between the four outputs for applying power to Notification Appliances. Each output is rated at 2 amps. A maximum 4 amp output is achieved by paralleling 2 outputs.

The **POWERPATH** under non-alarmed condition, provides independent loop supervision for CLASS A, STYLE Z and/or CLASS B, STYLE Y FACP fire circuits (NAC's).

Under an alarm condition, it provides power for driving the notification appliances connected to its outputs.

The unit is extremely versatile. Two FACP NAC's can be connected to its inputs. These inputs can then be directed to control supervision and power delivery to any combination of four outputs.

Since the outputs are isolated from ground and will not be affected by a single ground fault, the **POWERPATH** does not require a ground fault detection circuit.

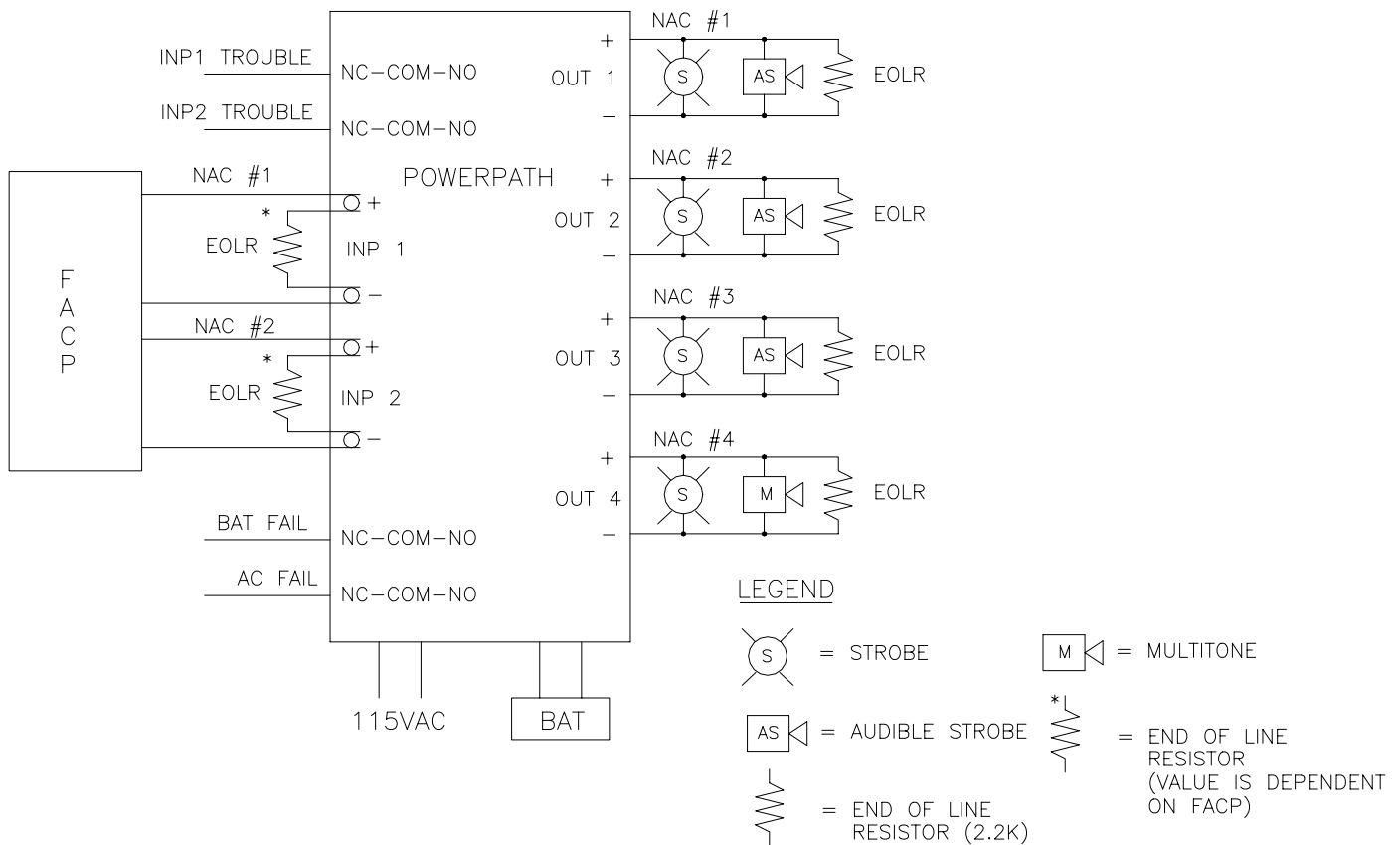


Figure 1: Typical Capabilities Of The Powerpath

1.1. FEATURES

This sub-paragraph describes the operating characteristics of the **POWERPATH** Power Supply/Charger. Included is information about the following **POWERPATH** panel features:

- U.L. Listed 864: Control Units for Fire-Protective Signaling Systems.
- Input and Output operation: 12 or 24 VDC. Outputs are Power Limited.
- Opto-Isolated Inputs.
- AC Trouble Indicator: 1 Form C or 1K Ω resistor in series with contacts (jumper selectable).
- Battery Trouble Indicator: : 1 Form C or 1K Ω resistor in series with contacts (jumper selectable).
- EOL: End of Line resistor, 2.2K Ω (output).
- Each output is limited to 2 amps with a resettable positive temperature coefficient (PTC) current protection.
- Power Supply is protected with short circuit protection & thermal shutdown.
- Output LED's indicate Alarm and Loop Fault condition on corresponding outputs.

1.2. GENERAL SPECIFICATIONS

AC Input: 115 VAC / 60 Hz / 2.15 amps.

Output: 12/24 VDC at 2 amps per output.
Total loop output currents = 6 amps, available at outputs under Alarm condition.

Battery: 12 or 24 Volts (two 12 Volts in series), 12 Amp-Hour.

Standby time: 24 hours with up to 5 minutes at 6 Amps of Alarm, or 60 hours with up to 5 minutes at 6 Amps of Alarm.

Standby current: 62 mA.

INPUT1, INPUT2: 9 to 30 VDC / 2 to 5 mA.

Maximum loop resistance: 100 Ω (ohms), using EOL = 2200 Ω .

1.3. TERMINOLOGY

The following nomenclature are commonly used industry equivalent terms and are used throughout this manual:

CLASS A = STYLE Z

CLASSB = STYLE Y

FACP = Fire Alarm Control Panel

EOLR = End-of-Line Resistor

NAC = Notification Appliance Circuit

NOTE: Bureau of Fire Prevention, City of Chicago Requirement:

The electrical supply from the Ryan box shall be dedicated for both the power booster and the FACP if the booster is connected to the latter.

1.4. POWER BOARD

The **POWERPATH** is comprised of a Control Board and a Power Supply.

The Power Supply includes transformers, batteries and a Power Board. The Power Board rectifies 28 VAC to charge and to maintain the charge of the standby batteries. The regulated DC and/or the batteries supply 6 Amps to power the NAC. The Power Board will supply either 12 or 24 VDC depending upon the setting of SW1, SW2 and the battery installed. An LED (Green) indicates that AC power is present. An LED (Red) indicates that DC voltage is present. The transformer secondaries are connected in parallel to the AC terminals of the Power Board. The batteries are connected to the +and- BAT terminals of the Power Board. (2 12V batteries in series for 24V) The output of the Power Board +and- DC is connected to the Control Board +and- DC terminals. It is necessary to observe polarity.

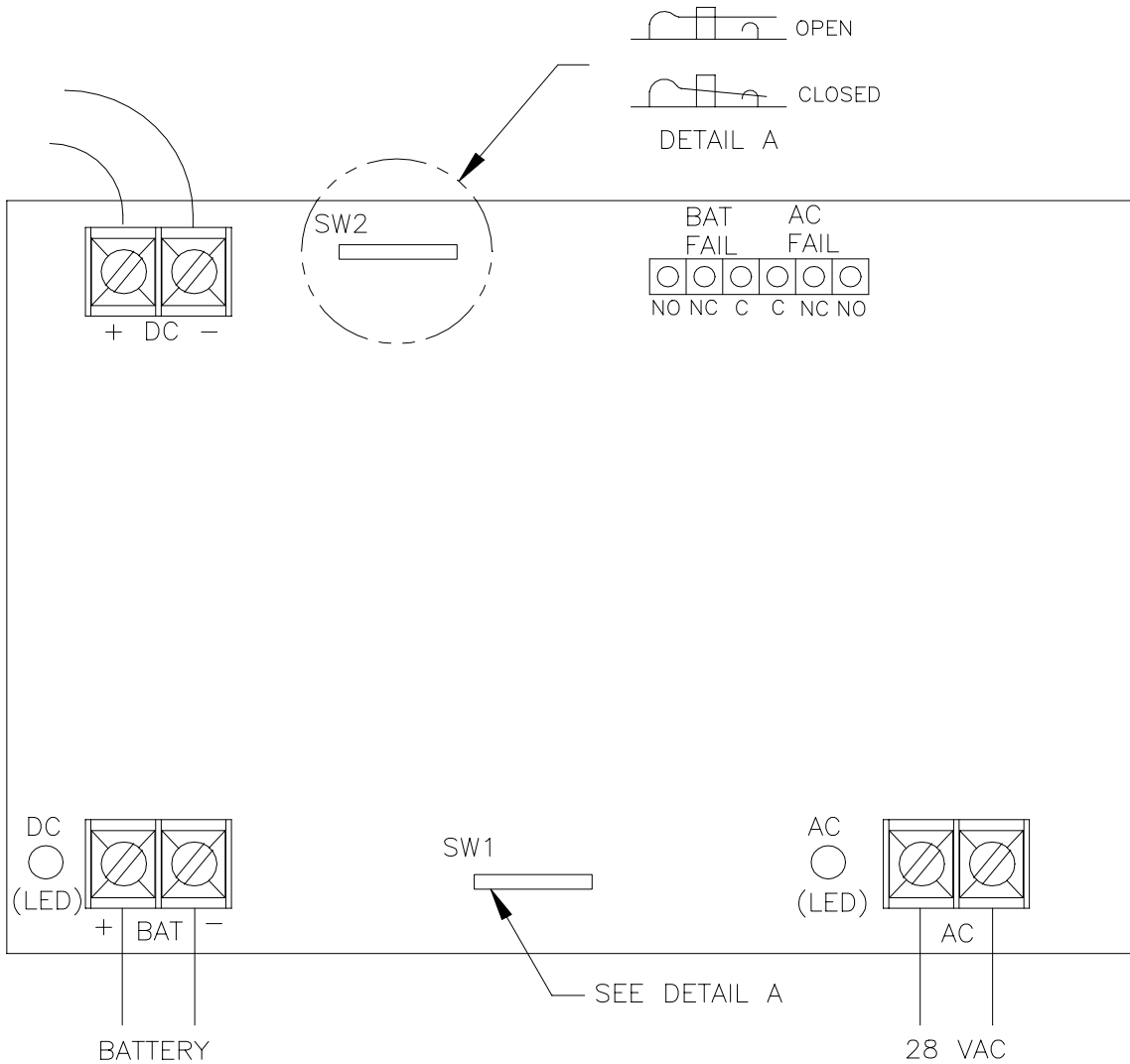


Figure 2:
Component Location
Power Board

POWER BOARD TERMINAL DESCRIPTION AND RATINGS:

- AC: 28 VAC Transformer Secondary. Non Power Limited Wiring.
- +BAT-: 24 VDC or 12 VDC Battery (Observe Polarity). Non Power Limited Wiring.
- +DC-: 24 VDC or 12 VDC to CONTROL BOARD. (Observe Polarity).
- BAT FAIL: "C NC NO": Battery Supervision.
- AC FAIL: "C NC NO": AC Supervision.

POWER BOARD SWITCH SETTINGS:

Output 12V: SW1 = closed, SW2 = open
 Output 24V: SW1 = open, SW2 = closed

POWER BOARD WIRING HOOK-UP:

115VAC/60Hz main power shall be connected to flying leads (White/Black/Green) of the transformer primary in the transformer compartment. The transformer secondary (Green/Yellow) shall be connected to “AC”. The +and- DC terminals should be connected to Control Board terminals +and- DC, observing polarity.

Batteries should be connected to the terminals marked +and- BAT, observing polarity. Use 12 Volt or 24 Volt batteries corresponding respectively to desired voltage settings for loop power as set by switches SW1 and SW2 on the POWER BOARD.

1.5. CONTROL BOARD

The Control Board inputs, INP1 and/or INP2, connect to the NAC of the FACP.

If the **POWERPATH** is at the end of the FACP NAC, then an FACP EOLR shall also be connected to the Control Board input terminals.

INP1 or INP2 can be selected to drive any of the four Outputs (OUT1 thru OUT4) by the setting of corresponding SW1 thru SW4.

During the normal NON-ALARM state, no LED is illuminated on the Control Board. The INP1 and/or INP2 (Green) LED’s are illuminated by an ALARM signal input.

The OUT1 thru OUT4 (Red) LED’s are illuminated when an ALARM signal is present or a Fault is detected on the corresponding Output.

SW5 and SW6 are used to select between Class B and Class A Outputs for OUT1, OUT3, and OUT2, OUT4.

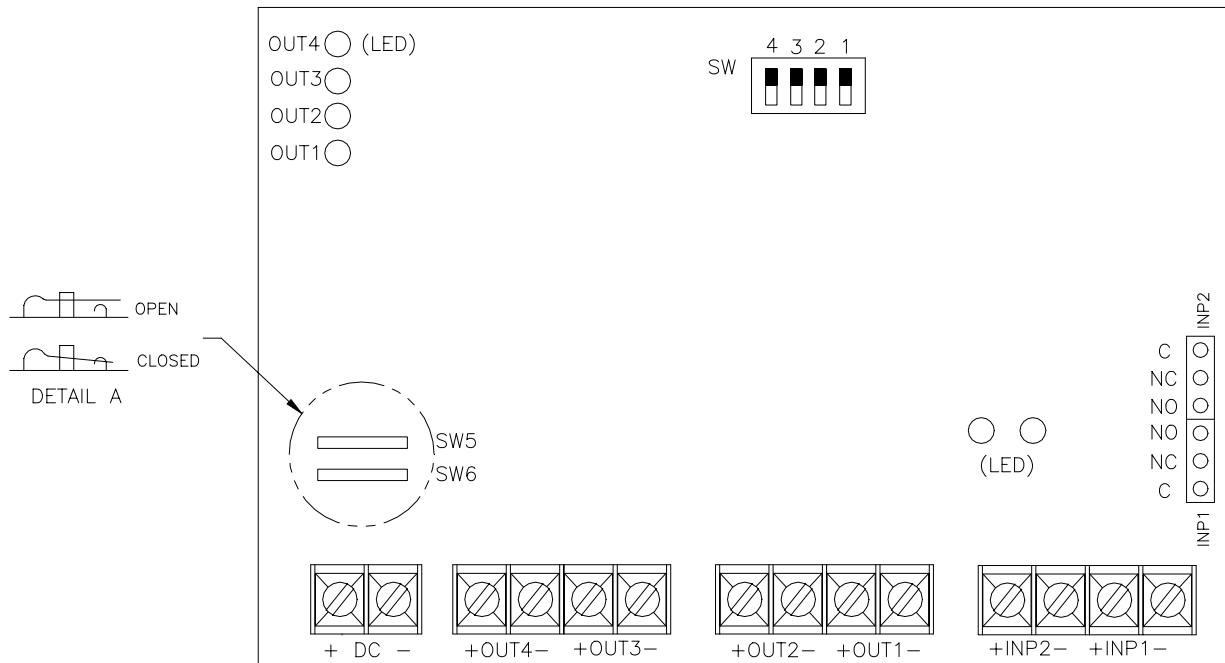


Figure 3:
Location of input and output terminals
Control Board

CONTROL BOARD TERMINAL DESCRIPTION AND RATINGS:

+INP1-:⁽¹⁾ Connects to FACP Output 1; 9 to 30 VDC
+INP2-: Connects to FACP Output 2; 9 to 30 VDC

-OUT1+: Signal Device OUTPUT1; 12 or 24 VDC, up to 2 Amps
-OUT2+: Signal Device OUTPUT2; 12 or 24 VDC, up to 2 Amps
-OUT3+: Signal Device OUTPUT3; 12 or 24 VDC, up to 2 Amps
-OUT4+: Signal Device OUTPUT4; 12 or 24 VDC, up to 2 Amps

Maximum total load shall not exceed 6 Amps.

Note: In the event of a loop overload, disconnect loop for about (2) minutes. This allows the overload protection device time to reset. Correct the overload problem and reconnect.

“INP1” “C NC NO” and “INP2” “C NC NO”⁽²⁾: Optional dry contact connection to FACP panel (see note 2).

EOLR (End of Line resistor) is a 2200Ω, 1W resistor, with body leads sufficiently long to connect across the terminals of the last Notification Appliance in the alarm loop. (4) 2200 Ω (ohms), 1 Watt resistors are included with the unit.

Notes:

- (1). Polarities on Control Board are shown to correspond with Output polarity under alarm conditions. Under non-alarm conditions, output polarities are reversed.
- (2). The “NC” and “C” terminals can be used in series with the FACP NAC. In the event of a NAC trouble condition on the **POWERPATH** output, this contact will open the FACP panel NAC, thus triggering a Trouble to the FACP panel output. In event of an alarm, this relay is overridden so that the FACP NAC is powered as usual.

CONTROL BOARD SWITCHES: SW1 THROUGH SW4 SETTINGS:

Input to Output control is determined by switches SW1 thru SW4 for Outputs OUT1 thru OUT4, respectively, as follows, under alarm conditions:

INP1 (connected to FACP NAC) will deliver power to any OUTPUT (OUT1 thru OUT4) where the corresponding switch (SW1 thru SW4) is set in the OFF Position (open).

INP2 (connected to FACP NAC) will deliver power to any OUTPUT (OUT1 thru OUT4) where the corresponding switch (SW1 thru SW4) is set in the ON position (closed).

CONTROL BOARD SWITCHES: SW5 & SW6 SETTINGS:

CLASS A, STYLE Z or CLASS B, STYLE Y operation is determined by “SW5” and “SW6”. See CLASS A, STYLE Z and CLASS B, STYLE Y Hook-up in paragraph 3.

1.6. LED STATUS INDICATION AND TROUBLE INDICATIONS

CONTROL BOARD LED's:

1. Under normal - non-alarm and no fault conditions, all LED's are off.
2. Any OUTPUT LED on while INPUT LED's are off, indicates a NAC fault condition.
3. Any OUTPUT LED's on while any INPUT LED's are on, indicates that those NAC are activated by the corresponding INPUT whose LED is on.

POWER BOARD LED:

AC LED is (green) ON if AC power is present.
DC LED is (red) ON if DC power is present.

POWER BOARD TROUBLE MONITORING (AC & BATTERY CONDITION):

Both AC and BATTERY FAIL offer (1) FORM C dry contacts across AC FAIL and BAT FAIL terminal outputs. Instead of dry contacts, you can present a low resistance (1 K Ω) across AC FAIL and BAT FAIL terminal outputs. This low resistance value can be used to create a trouble condition on the indicating NAC. Place the AC FAIL and/or BAT FAIL terminal outputs across the indicating NAC output, while not affecting NAC integrity to be armed in the event of a fire (to present 1 K Ω resistance: cut jumper J1 for AC FAIL terminal, J2 for BAT FAIL terminal). Refer to Figure 2 and Figure 10.

AC FAIL is indicated with a minimum (6) hour delay. Optional (5) minute delay is provided for testing purposes only.

LOW BATTERY is indicated on BATTERY FAIL terminals when 24V battery drops below 20 volts, or when 12V battery drops below 10 volts on battery.

NO BATTERY PRESENT is indicated on BATTERY FAIL terminals within 2 minutes.

1.7. BATTERY MAINTENANCE

Battery replacement: Power Sonic (or equal) 12 or 24 volt, 12 AH.

Replace with new batteries every (4) years or, as needed if battery will no longer accept full charge.

Maximum battery charging current measured in series with positive battery terminal should not exceed 1.4 amps with battery discharged to 10V for 12V battery or 20V for 24V battery applications.

2. POWERPATH INSTALLATION

⚠ WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION: These devices are not intended for use in hazardous locations as defined by the National Electrical Code (NEC) and by the National Fire Protection Association (NFPA).

2.1. UNPACKING

The **POWERPATH** was carefully checked before leaving the factory. Inspect shipping container and unit carefully for indication of improper handling. If the unit has been damaged, make an immediate claim to the carrier.

Remove the **POWERPATH** from the shipping container and check that the door lock keys, door lock and battery connection wires are inside, and that the transformers, Control Board and Power Board are mounted securely to the rear of the enclosure.

2.2. MOUNTING

Mount unit in locations that do not exceed the following temperature and humidity requirements. Temperature = 0° to 49° C and Humidity = 10% to 85% at 30° C non-condensing.

When mounting on interior walls, use appropriate screw anchors in plaster. When mounting on concrete, especially when moisture is expected, first attach a piece of 3/4-inch plywood to the concrete surface. Attach the **POWERPATH** to the plywood.

Before installing the **POWERPATH**, the AC input must first be wired into the building's main electrical power. The conduit entry can be either the top right-hand side or the right-hand side of the top. Refer to Figure 4 .

⚠CAUTION: The **POWERPATH** panel shall be mounted in a location within the environmental limits specified in the latest UL standard for indoor control panels.

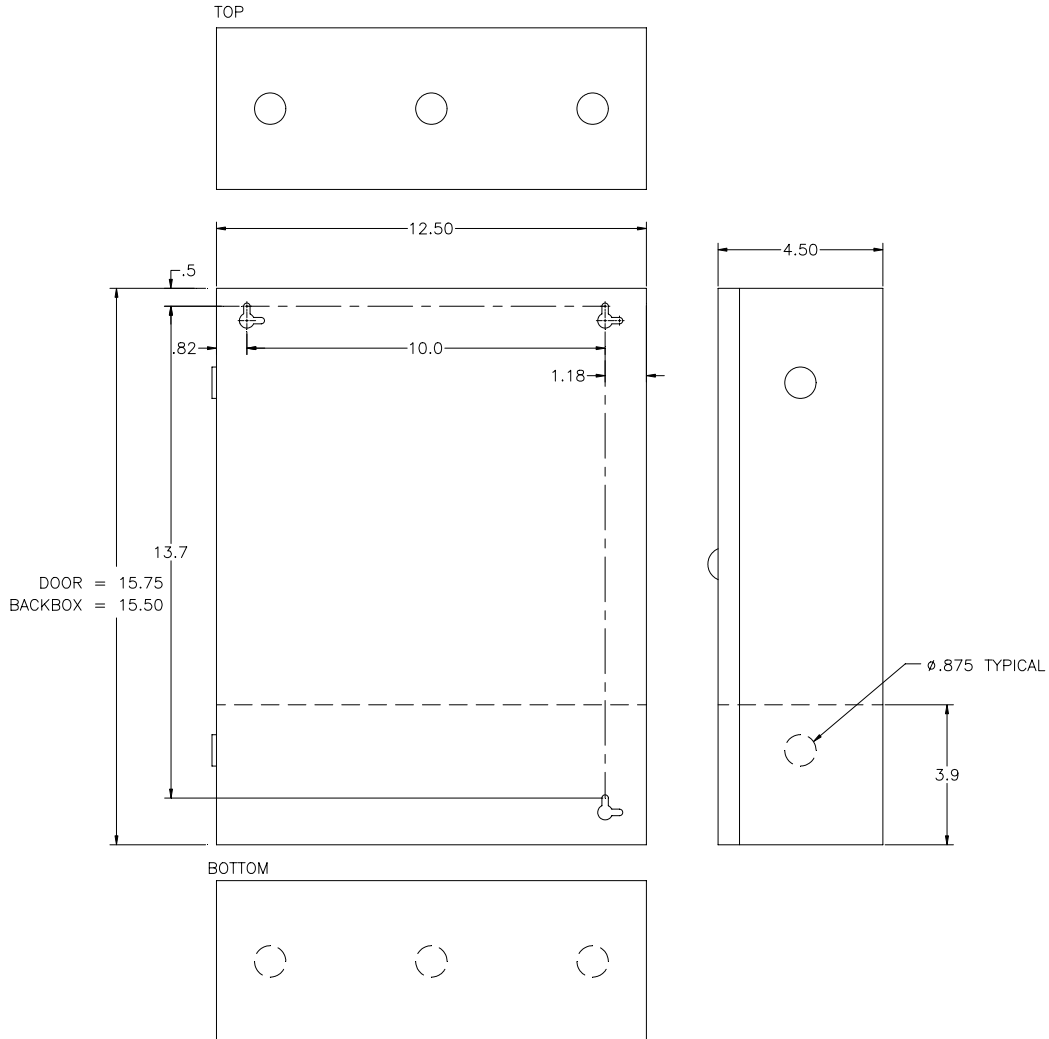


Figure 4:
Backbox Mounting Dimensions

3. WIRING INSTRUCTION

⚠ CAUTION:

- Use **POWERPATH** only on circuits with continuously applied voltage. Do not use **POWERPATH** on coded or interrupted circuits in which the applied voltage is cycled on and off.
- Do not connect **POWERPATH** to the NAC after a Sync Module. Wheelock's DSM and SM Sync Modules may be used in conjunction with a PowerPATH ONLY IN THE ORDER SHOWN in Fig 5. Each output can use a Sync Module to drive audible or visual synchronized devices. Refer to Section 4.

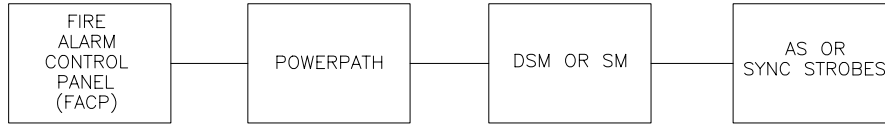


Figure 5: SM/DSM Single Line Diagram with POWERPATH

- 1) **POWERPATH** models have in-out wiring terminals that accept two #12 to #18 Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals as shown at right.
- 2) Separate all in-out wire runs on supervised circuits to assure integrity of circuit supervision as shown at right. The polarity shown in the wiring diagrams is for operation of the signals. The polarity is reversed by the FACP during supervision.

3.1. CLASS B, STYLE Y HOOK-UP

Connect notification appliances to desired indicating output (OUT1 thru OUT4).

Terminate each loop with a 2.2KΩ EOLR (End of Line Resistor).

Connect FACP outputs (two maximum) to desired Input (INP1, INP2). Appropriate FACP EOL must be used to terminate FACP output loop. Set corresponding switches (SW1 thru SW4) to control Input to Output flow. Set SW5 and SW6 OFF (open).

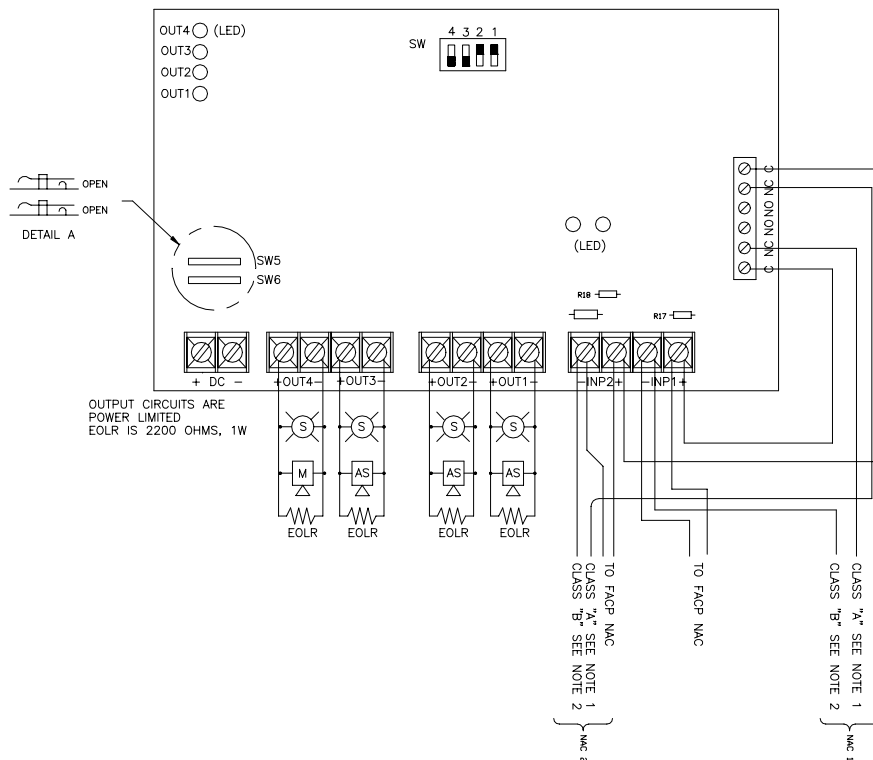


Figure 6: "Class B, Y, W" Hook-up Diagram

If greater NAC current is desired, connect two Outputs in parallel for a maximum current of 4 Amps on the paralleled NAC. The corresponding two Switches shall be set to the same position and only one Input shall be used. (see diagram, Figure 7). Two Class B NAC's can be driven from one FACP NAC by selecting SW1 thru SW4 to the same position. When SW1 thru SW4 is selected to the up position, INP1 will control OUT1 thru OUT4. SW1 thru SW4 in the down position selects INP2 to OUT1 thru OUT4.

Total load may not exceed 6 amps for all outputs. Terminate remaining outputs with EOLR.

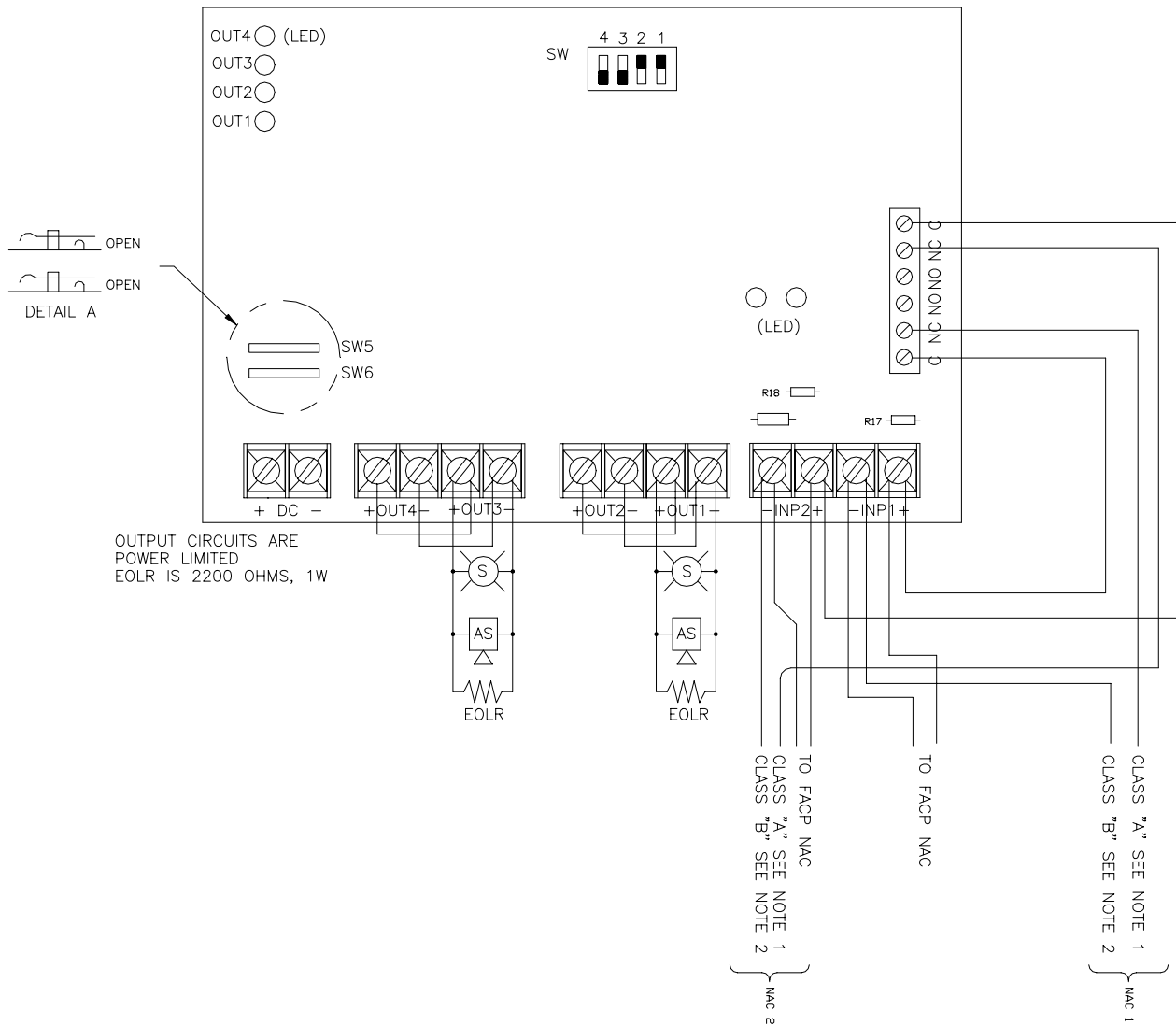


Figure 7: "Class B, Y, W" For parallel Hook-up Diagram

3.2. " CLASS A, STYLE Z" HOOK-UP

Two individual CLASS A, STYLE Z loops can be hooked-up as follows (3 Amps max. per NAC):

Loop1 starts on OUT1 to all notification appliances and terminates on OUT3.

Set switch SW6 ON (closed). No EOLR is required, NAC is terminated internally.

Loop2 starts on OUT2 to all notification appliances and terminates on OUT4.

Set switch SW5 ON (closed). No EOLR required, NAC is terminated internally.

INPUT is connected to the FACP NAC as shown in diagram. It appears as another loop signaling device to the FACP. Two FACP loops can be used by selecting SW1 and SW3 to one input and SW2 and SW4 to second input. Select SW1, SW3 and SW2, SW4 to OFF position for OUT1 thru OUT4 to INP1.

Note: The **POWERPATH** is not designed to parallel Class A outputs.

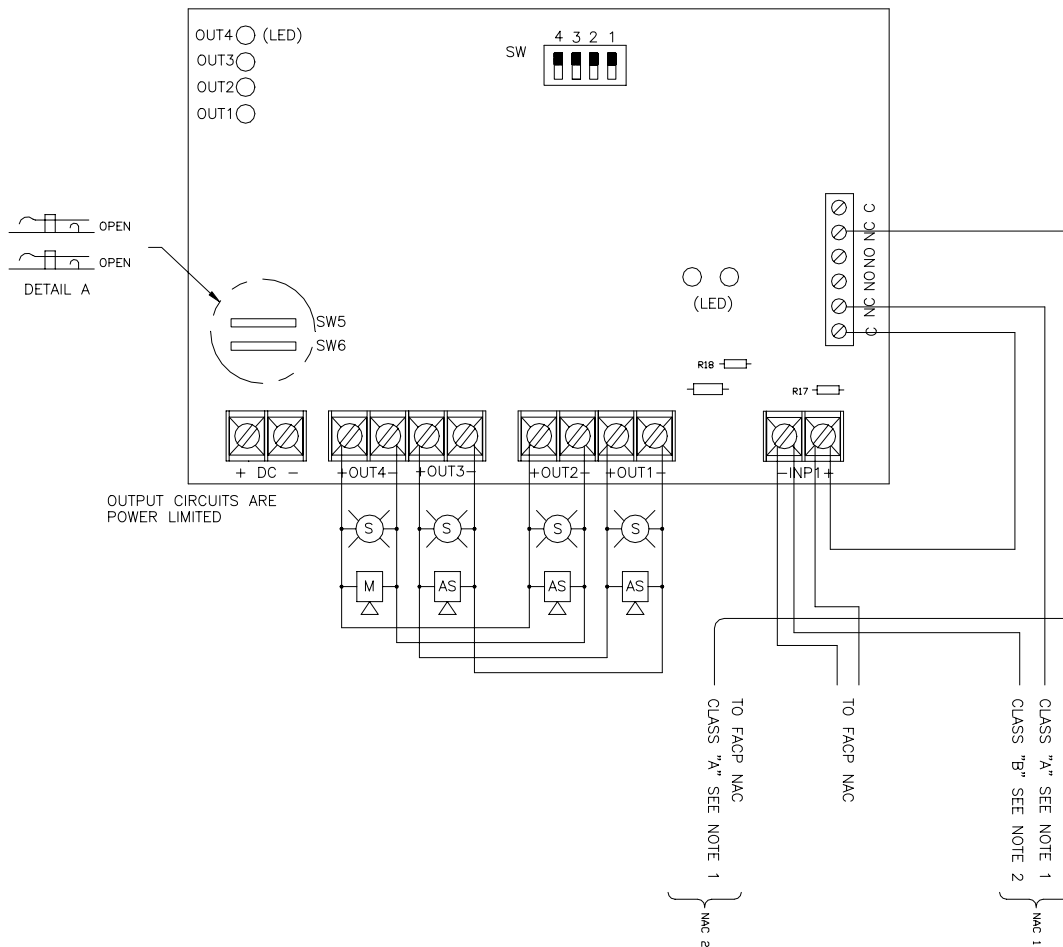


Figure 8: Class A, Y, Z Hook-up Diagram

3.3. WIRE ROUTING

To avoid induced noise (transfer of electrical energy from one wire to another), keep input wiring separated from high current output and non-power-limited wiring. Avoid pulling one multiconductor cable for the entire system. Instead, separate high current input/output from low current wiring. Separate power-limited from non-power-limited wiring. Non-power-limited wiring must be enclosed in conduit.

Wiring within the cabinet should be routed around the perimeter of the cabinet. It should not cross the printed circuit board where it could induce noise into the sensitive microelectronics or pick up unwanted RF noise from the switching power supply circuit.

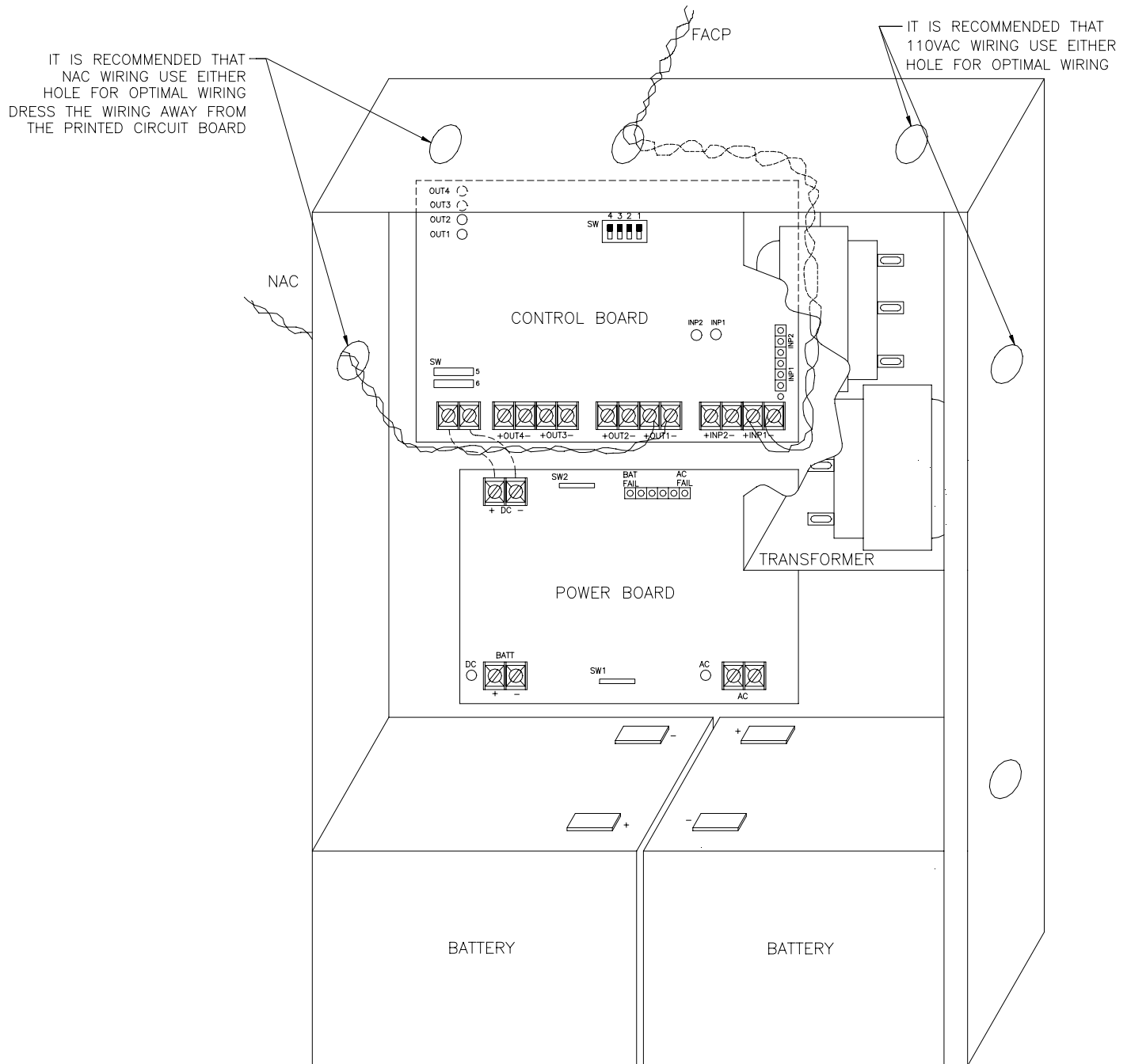


Figure 9: Wire Routing

The following applications illustrate the use of synchronized appliances powered by the **POWERPATH**. The **POWERPATH** can only be used on NAC's with continuously applied voltage. Do not use **POWERPATH** on coded or interrupted NAC's in which the applied voltage is cycled on and off. Do not connect **POWERPATH** to a NAC after a Sync Module. Each output of the **POWERPATH** can use a Sync Module Circuit to drive audible/visual, visual, audible or synchronized appliances. Refer to Series SM, DSM Sync Modules and audible and visual notification appliance Instruction Sheets for additional information.

⚠CAUTION:

- Use **POWERPATH** only on circuits with continuously applied voltage. Do not use **POWERPATH** on coded or interrupted circuits in which the applied voltage is cycled on and off.
- Do not connect **POWERPATH** to the NAC after a Sync Module. Wheelock's DSM and SM Sync Modules may be used in conjunction with a PowerPATH ONLY IN THE ORDER SHOWN in Fig 5. Each output can use a Sync Module to drive audible or visual synchronized devices.

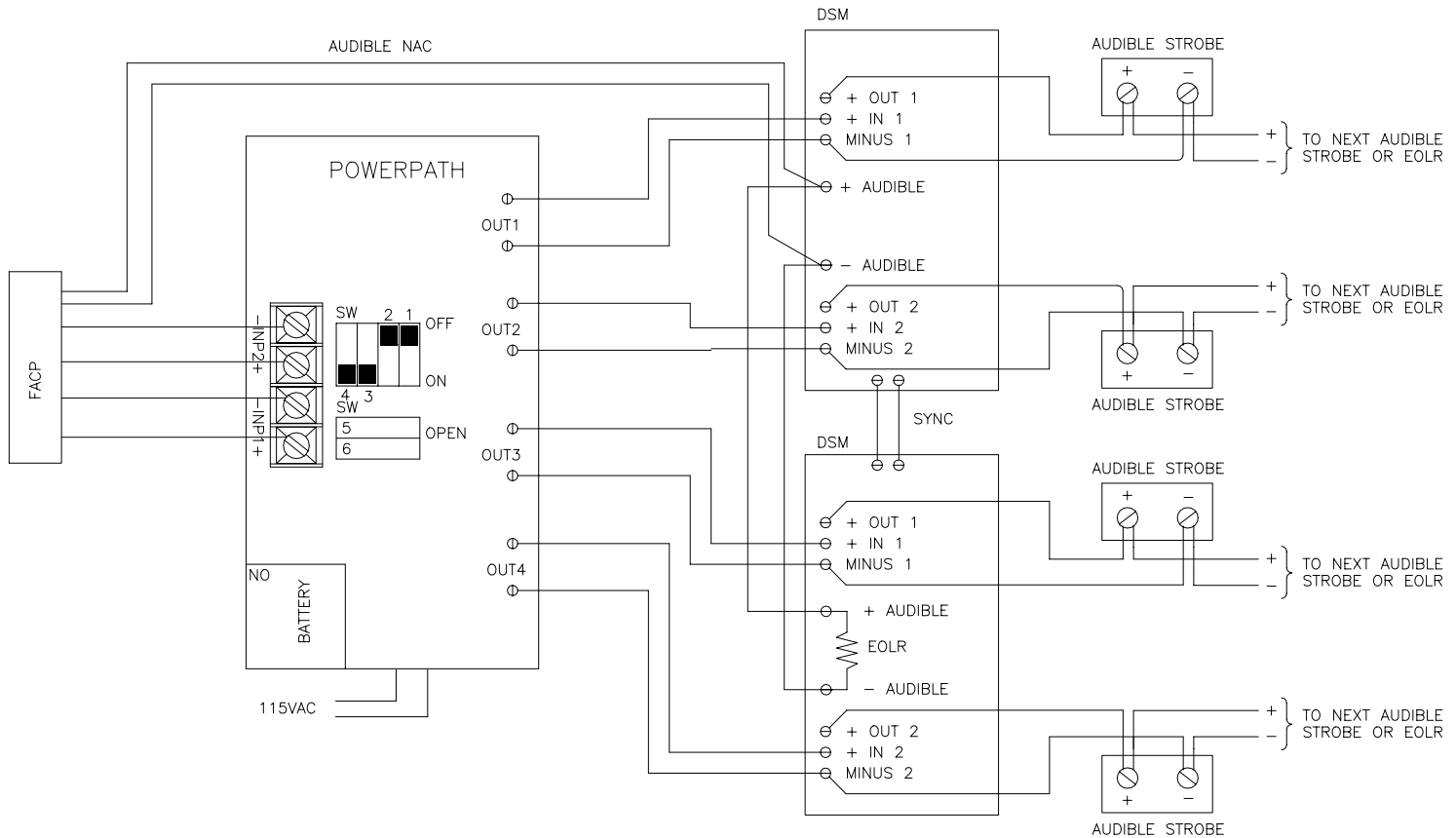


Figure 10:
Four Class B Notification Circuits with Audible Silence
for Wheelock AS Strobes

SW1 and SW2 (off) selects INP1 to OUT1 and OUT2.
 SW3 and SW4 (on) selects INP2 to OUT3 and OUT4.
 SW5 and SW6 (open) selects Class B for all four outputs.

OUT1 through OUT4 can be selected to either INP1 or INP2 with SW1 thru SW4. An output is selected to INP1 when the corresponding switch is in the "OFF" position. In the "ON" position, the corresponding output is selected to INP2.

SW5 and SW6 in the open position selects Class B for all outputs. SW6 allows for Class A output from OUT1 to OUT3 and SW5 allows for Class A output from OUT2 to OUT4.

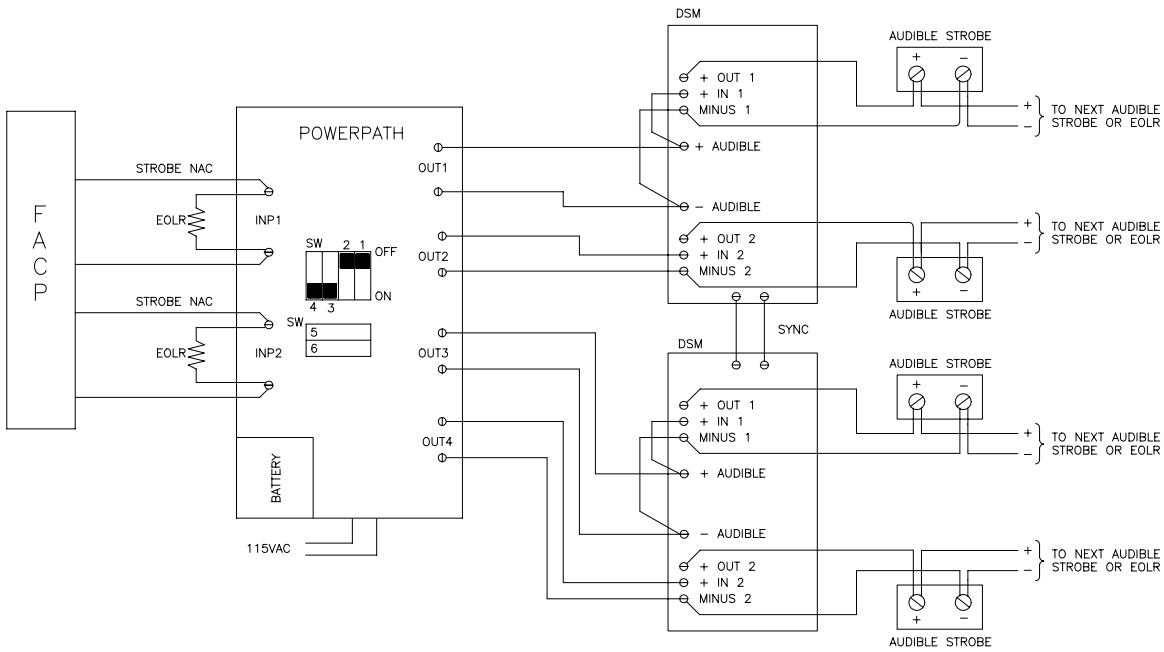


Figure 11:
Four Class B Notification Circuits without Audible Silence Feature

SW1 and SW2 (off) selects INP1 to OUT1 and OUT2
 SW3 and SW4 (on) selects INP2 to OUT3 and OUT4
 SW5 and SW6 (open) selects Class B for OUT1 through OUT4.

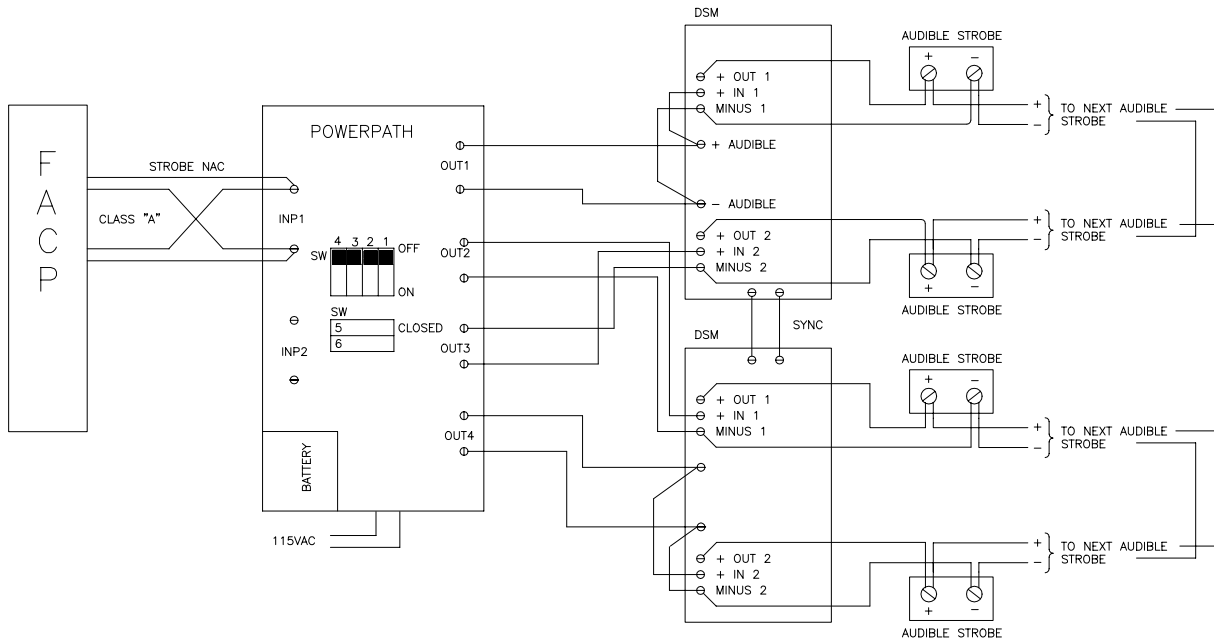


Figure 12:
Dual Class A, X, Z Hook-up Diagram without Audible Silence Feature

As shown: select INP1 to OUT1 thru OUT4 (SW1 thru SW4 off) and SW5 and SW6 closed. OUT1 forms Class A loop with OUT3 with SW6 closed. OUT2 forms Class A loop with OUT4 with SW5 closed.

Note: Each Class A NAC can not exceed 3A.

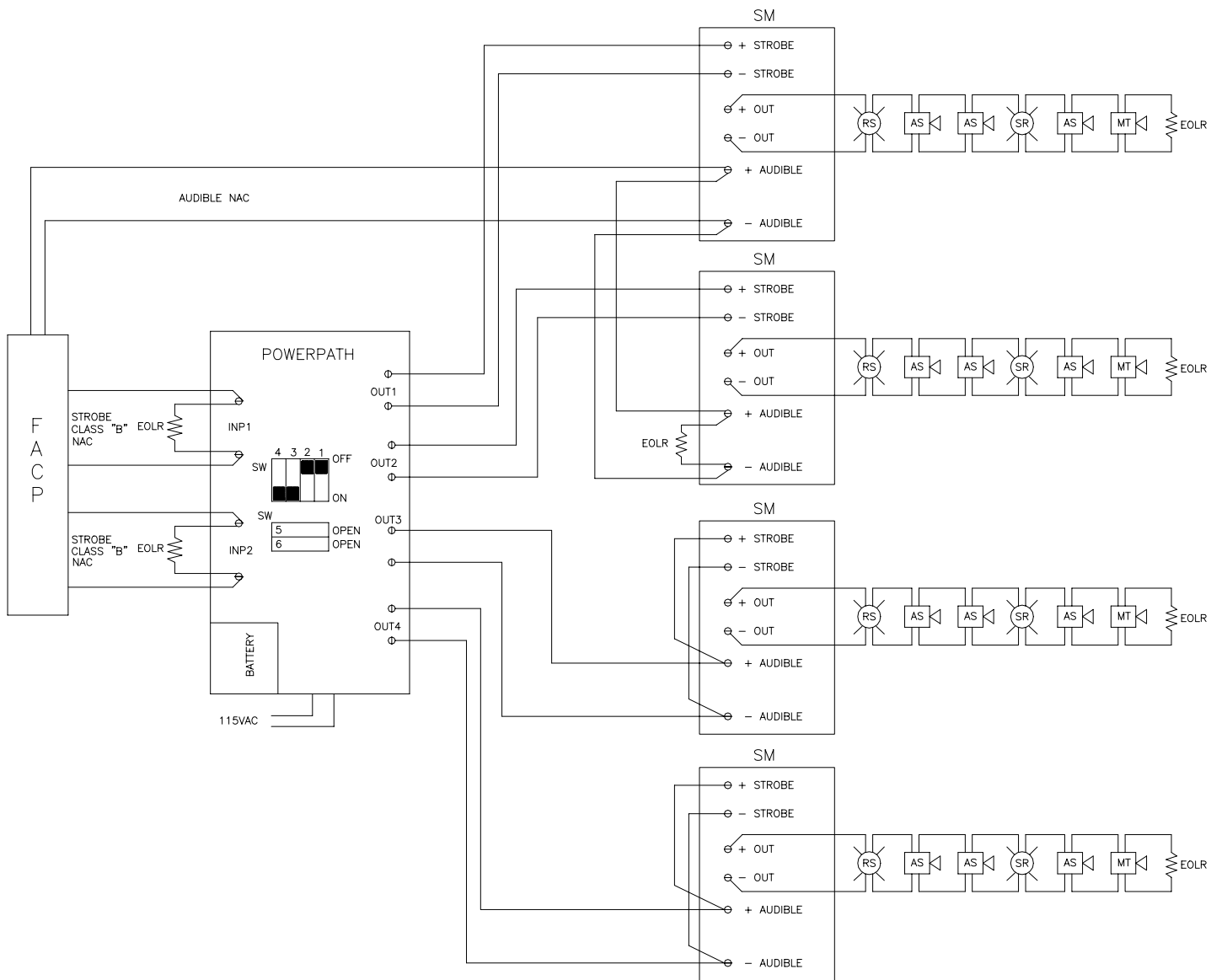


Figure 13:
Four Class B Notification Circuits with SM Modules
Two Class B from INP1 with Audio Silence
Two Class B from INP2 without Audio Silence

Note: Each loop of Notification Appliances are individually synchronized.

SW1 and SW2 (off) selects OUT1 and OUT2 to INP1
 SW3 and SW4 (on) selects OUT3 and OUT4 to INP2
 SW5 and SW6 (open) selects Class B for all four outputs

4. UL LISTED NOTIFICATION APPLIANCES

The following is a list of Wheelock UL approved Notification Appliances that can be used with the **POWERPATH**:

Table 1			
Product	Candela (cd)	24 VDC Models	12VDC Models
Bells	---	MB-G6-24	MB-G6-12
		MB-G10-24	MB-G10-12
Chimes	---	CH70-24	---
	---	CH90-24	---
Strobe Chimes	15cd - wall	CH70-2415W	---
	15/75cd - wall	CH70-241575W	---
	30cd - wall	CH70-2430W	---
	75cd - wall	CH70-2475W	---
	110cd - wall	CH70-24110W	---
	15cd - ceiling	CH70-2415C	---
	30cd - ceiling	CH70-2430C	---
	75cd - ceiling	CH70-2475C	---
	100cd - ceiling	CH70-24100C	---
	15cd - wall	CH90-2415W	---
	15/75cd - wall	CH90-241575W	---
	30cd - wall	CH90-2430W	---
	75cd - wall	CH90-2475W	---
	110cd - wall	CH90-24110W	---
	15cd - ceiling	CH90-2415C	---
75cd - ceiling	CH90-2475C	---	
100cd - ceiling	CH90-24100C	---	
Mini Horn	---	MIZ-24	MIZ-12
Audible Horn	---	AH-24	AH-12
		AH-24WP	AH-12WP
Audible Strobe	15cd - wall	AS-2415W	AS-1215W
	15/75cd - wall	AS-241575W	AS-121575W
	30cd - wall	AS-2430W	---
	75cd - wall	AS-2475W	---
	110cd - wall	AS-24110W	---
	15cd - ceiling	AS-2415C	---
	30cd - ceiling	AS-2430C	---
	75cd - ceiling	AS-2475C	---
100cd - ceiling	AS-24100C	---	
Notification Horn	---	NH-12/24	NH-12/24
Notification Strobe	15cd - wall	NS-2415W	NS-1215W
	15/75cd - wall	NS-241575W	NS-121575W
	30cd - wall	NS-2430W	---
	75cd - wall	NS-2475W	---
	110cd - wall	NS-24110W	---
Multitone Signal	---	MT-12/24	MT-12/24
		MT4-12/24	MT4-12/24
Multitone Strobe	15cd	MT-24-LS	---
	15/75cd	MT-24-LSM	MT-12-LSM
	30cd	MT-24-MS	---
	75cd	MT-24-IS	---
Multitone Sync Strobe	15cd	MT-24-SL	---
	15/75cd	MT-24-SLM	---
Addressable Multitone	---	AMT-12/24	AMT-12/24

Table 1 Continued

Product	Candela (cd)	24 VDC Models	12VDC Models
Addressable Multitone Strobe	15cd	AMT-24-LS	AMT-12-LS
	15/75cd	AMT-24-LSM	AMT-12-LSM
	30cd	AMT-24-MS	AMT-12-MS
	75cd	AMT-24-IS	---
Addressable Multitone Sync Strobe	15cd	AMT-24-SL	---
	15/75cd	AMT-24-SLM	---
Remote Strobe Non Sync	15cd	RS-2415W	RS-1215W
	15/75cd	RS-241575	RS-121575W
Remote Strobe Retrofit Plate	15cd	RSP-2415W	RSP-1215W
	15/75cd	RSP-241575	RSP-121575W
Remote Strobe (Sync/Non Sync)	15cd - wall	RSS-2415W	RSS-1215W
	15/75cd - wall	RSS-241575W	RSS-121575W
	30cd - wall	RSS-2430W	---
	75cd - wall	RSS-2475W	---
	110cd - wall	RSS-24110W	---
	15cd - ceiling	RSS-2415C	---
	30cd - ceiling	RSS-2430C	---
	75cd - ceiling	RSS-2475C	---
Remote Strobe with Retrofit Plate (Sync/Non Sync)	15cd - wall	RSSP-2415W	RSSP-1215W
	15/75cd - wall	RSSP-241575W	RSSP-121575W
	30cd - wall	RSSP-2430W	---
	75cd - wall	RSSP-2475W	---
	110cd - wall	RSSP-24110W	---
	15cd - ceiling	RSSP-2415C	---
	30cd - ceiling	RSSP-2430C	---
	75cd - ceiling	RSSP-2475C	---
Sync Modules	---	SM-12/24	---
	---	DSM-12/24	---
Strobe Speakers (Sync/Non Sync)	15cd - wall	E70-2415W	---
	15/75cd - wall	E70-241575W	---
	30cd - wall	E70-2430W	---
	75cd - wall	E70-2475W	---
	110cd - wall	E70-24110W	---
	15cd - ceiling	E70-2415C	---
	30cd - ceiling	E70-2430C	---
	75cd - ceiling	E70-2475C	---
	100cd - ceiling	E70-24100C	---
	15cd - wall	E90-2415W	---
	15/75cd - wall	E90-241575W	---
	30cd - wall	E90-2430W	---
	75cd - wall	E90-2475W	---
	110cd - wall	E90-24110W	---
	15cd - ceiling	E90-2415C	---
	30cd - ceiling	E90-2430C	---
	75cd - ceiling	E90-2475C	---
	100cd - ceiling	E90-24100C	---

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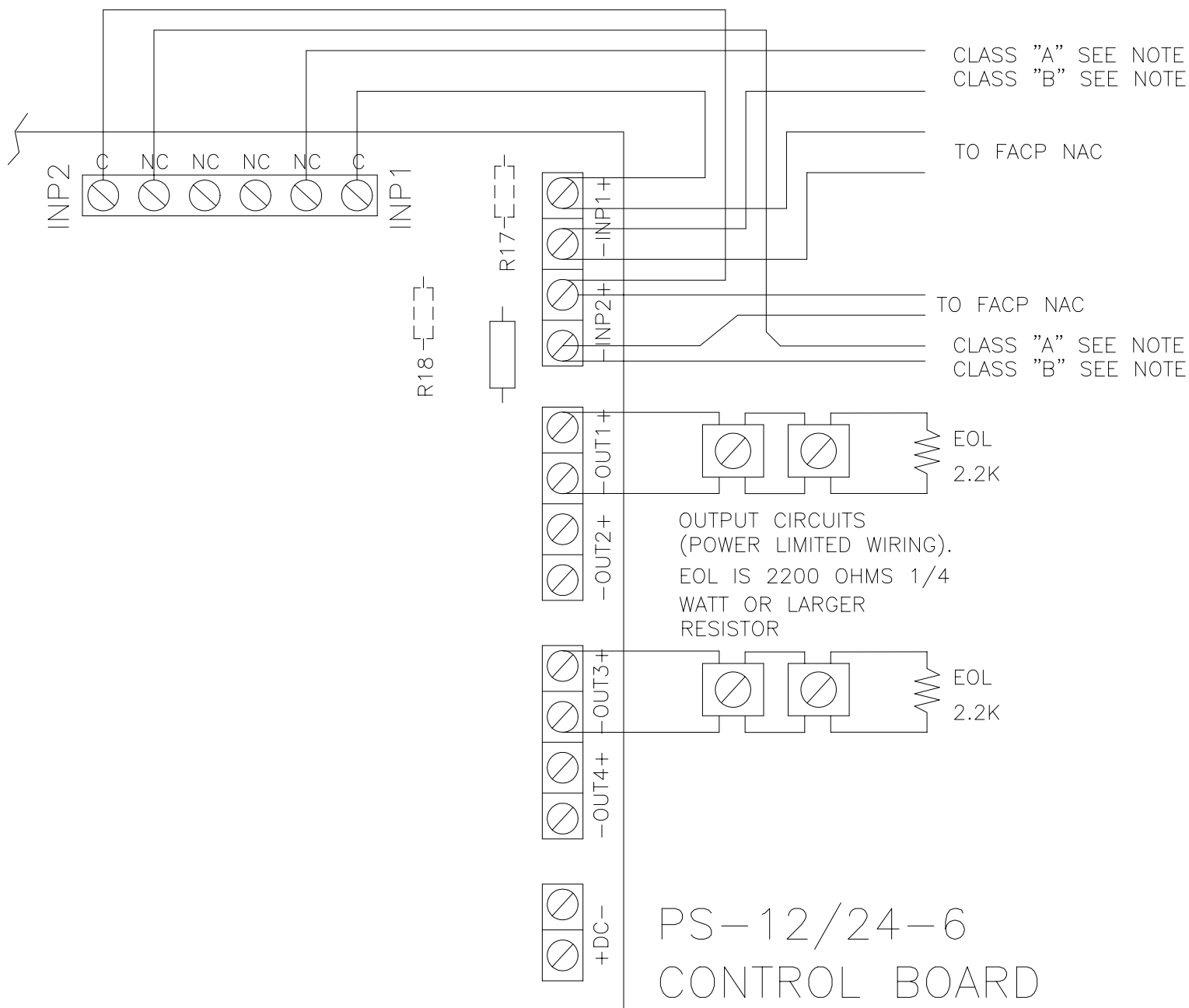
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11/98

ADDENDUM TO PS 12/24
RECOMMENDED WAY FOR PS-12/24-6
CONNECTION TO FIRE ALARM CONTROL PANELS

1. FOR INPUT 1 RESISTOR R17 SHOULD BE REMOVED (HOOKED UP AS ILLUSTRATED)
2. FOR INPUT 2 RESISTOR R18 SHOULD BE REMOVED, IF SAME HOOKUP AS INPUT 1 IS DESIRED (OTHERWISE DO NOT REMOVE RESISTOR R18)



EACH OUTPUT OF THE PS-12/24-6 MAY BE ASSIGNED TO EITHER INPUT. IF A "TROUBLE" OCCURS ON ANY OUTPUT THE ASSIGNED INPUT WILL OPEN, CAUSING A "TROUBLE" INDICATION TO THE FACP.

THE WIRING FROM FACP TO INPUT OF THE POWER BOOSTER AS SHOWN IN FIGURE 6, 7, 10, 11, 12 AND 13 OF THE POWER PATH PS-12/24-6 MANUAL SHOULD BE CHANGED AS SHOWN ABOVE.

NOTE:

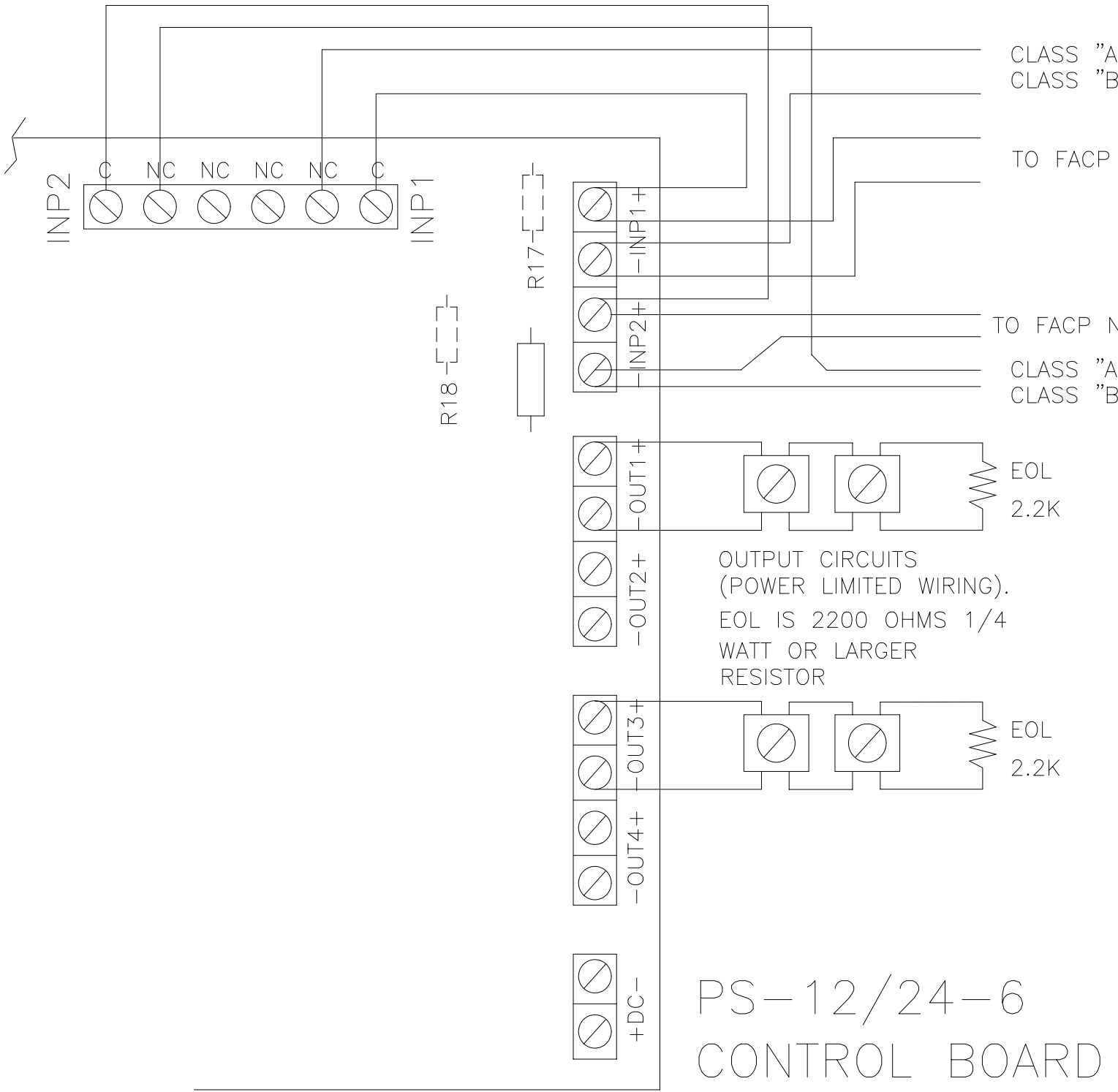
1. CLASS "A" CIRCUIT: RETURNED TO FACP

2. CLASS "B" CIRCUIT:

- OPTIONS:
- a) PLACE FACP NAC EOLR ACROSS THESE CONDUCTORS; OR
 - b) ATTACH ADDITIONAL PS-12/24-6 TO CIRCUIT; OR
 - c) ATTACH ADDITIONAL NOTIFICATION APPLIANCES

WHEREVER THE FACP NAC ENDS THE FACP NAC EOLR SHALL BE ATTACHED.

**ADDENDUM TO PS 12/24
RECOMMENDED WAY FOR PS-12/24-6
CONNECTION TO FIRE ALARM CONTROL PANELS**



EACH OUTPUT OF THE PS-12/24-6 MAY BE ASSIGNED TO EITHER INPUT. IF A "TROUBLE" OCCURS ON ANY OUTPUT THE ASSIGNED INPUT WILL OPEN, CAUSING A "TROUBLE" INDICATION TO THE FACP.
THE WIRING FROM FACP TO INPUT OF THE POWER BOOSTER AS SHOWN IN FIGURE 6, 7, 10, 11, 12 AND 13 OF THE POWER PATH PS-12/24-6 MANUAL SHOULD BE CHANGED AS SHOWN ABOVE.

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