



Application Guide

# Remote Booster Power Supply

A summary of typical wiring and configuration  
for everyday and advanced applications





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## **Remote Booster Power Supply**

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Wiring diagrams provided herein are for information and reference only and are not to be used for installation purposes. Consult the appropriate installation documents for wiring and configuration details.

This guidebook is for information only and is not intended as a substitute for verbatim legislated requirements. For authoritative specifications regarding the application of life safety, security, and access control systems, consult current editions of applicable codes and standards. For authoritative interpretation of those codes and standards, consult your local authority having jurisdiction.

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Intelligent life safety and security control for large and medium sized applications

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# Remote Booster Power Supply

## Features Summary



- Four independent 24 V, 3 Amp Notification Appliance Circuits
  - each configurable as auxiliary output
- Ideal as a general purpose auxiliary power supply
- Suitable for fire, as well as security and access control applications
- Built-in Genesis synchronization and silence pulses
- Available in 10 Amp and 6.5 Amp versions
- Selectable signal rates
- Selectable input-to-output correlations
- Dual inputs allow activation by existing NACs or by Signature Series intelligent modules
- NACs configure for either four Class B or two Class A circuits
- 110 Vac and 220 Vac versions available
- On-board status LEDs for easy troubleshooting of faults
- High reliability FETs control NAC circuits
- Extensive UL Listings (Listed accessory under the following standards)
 

Standard	CCN	Description
UL864	UOXX	Fire Alarm Systems
UL636	ANET, UEHX7	Holdup Alarm Units and Systems
UL609	AOTX, AOTX7	Local Burglar Alarm Units and Systems
UL294	ALVY, UEHX7	Access Control Systems
UL365	APAW, APAW7	Police Station Connected Burglar Alarm Units and Systems
ULC-S527	UOXXC	Control Units, Fire Alarm (Canada)
ULC-S303	AOTX7	Local Burglar Alarm Units and Systems (Canada)
ULC-S304	AMCX7	Central and Monitoring Station Burglar Alarm Units (Canada)
C22.2 No. 205		Signaling Equipment (Canada)
UL1076	APOU, APOU7	Proprietary Burglar Alarm System Units
UL1610	AMCX	Central Station Alarm Unit

EST's Remote Booster Power Supply offers a single, flexible supplementary power solution for all life safety, security, and access control needs. With four independent Notification Appliance Circuits (NACs), each independently field configurable as auxiliary output, the BPS is ideally suited to power an extremely wide range of devices from visible and audible signals to security and access control equipment.



The BPS meets simple 24 Vdc power requirements right out of the box with little or no configuration required, providing clean and reliable auxiliary power for any suitable device, regardless of its function manufacturer. Four on-board Class B NACs provide power for visible or audible signals, and may be reconfigured as two Class A NACs with minor adjustment.

For more advanced applications, extensive installer-selectable options provide the flexibility, to give the system designer the ability to fine tune resources for the most economical performance possible. Booster Power Supply input (sense) circuits may also be interconnected in series or parallel to provide total and virtually unlimited continuity among signals and devices system-wide.

Edwards systems and devices take full advantage of the BPS's advanced features. With a built-in Genesis synch and silence pulse generator, all audible and visible devices can be synchronized to UL standards from a single BPS. This eliminates the need for dedicated synchronization/silence modules, cutting installation time and reducing equipment costs. Thanks to two separate input circuits, the BPS efficiently supports activation by existing NACs or Signature Series modules, which may be used to add intelligent control to power supply and signal operation.

Whether its used to simply extend the length of an existing NAC, or relay intelligent control to a sophisticated series of power supplies, the BPS is the logical choice for any life safety, security or access control application.

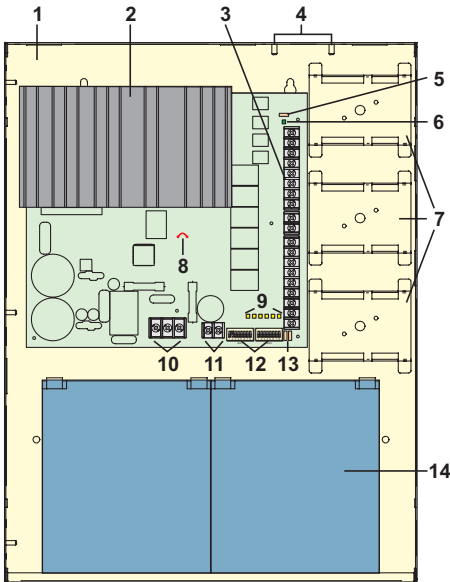
## Specifications

Model	6.5 amp Booster	10 amp Booster
AC Line Voltage	120 VAC or 220-240 VAC 50/60 Hz 250 watts	120 VAC or 220-240 VAC 50/60Hz 375 watts
Notification Appliance Circuit Ratings	3.0A max. per circuit @ 24Vdc nominal 6.5A max total all NACs	3.0A max. per circuit @ 24Vdc nominal 10A max total all NACs
Trouble Relay	2 Amps @ 30Vdc	
Auxiliary Outputs	Four configurable outputs replace NACs 1, 2, 3 or 4 as auxiliary outputs and 200 mA dedicated auxiliary. (See note 2.)	
Input Current (from an existing NAC)	3mA @ 12Vdc, 6mA @ 24Vdc	
Booster Internal Supervisory Current	70mA	
Signature Mounting Space	Accommodates three two-gang modules.	
Maximum Battery Size	10 Amp Hours (2 of 12V10A) in cabinet up to 24 Amp hours with external battery cabinet for fire and security applications; up to 65 Amp hours for access control applications in external battery box.	
Terminal Wire Gauge	18-12 AWG	
Relative Humidity	0 to 93% non condensing @ 32°C	
Temperature Rating	32° to 120°F (0° to 49°C)	
NAC Wiring Styles	Class A or Class B	
Output Signal Rates	Continuous, California rate, 3-3-3 temporal, or follow installed panel's NAC. (See note 1.)	
Ground Fault Detection	Enable or Disable via jumper	
Agency Listings	UL, ULC, CSFM	

### Notes

1. Model BPS\*CAA provides selection for California rate, in place of temporal.
2. Maximum of 8 Amps can be used for auxiliary output.

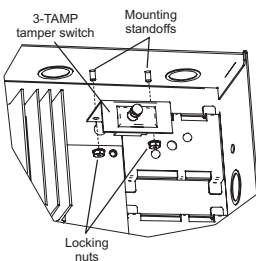
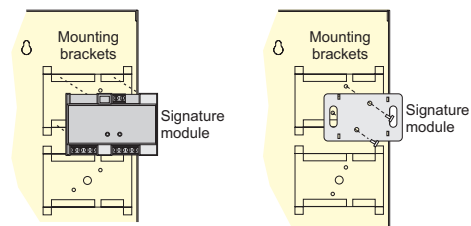
## Component Layout



- 1 Enclosure: Houses the BPS electronics and two standby batteries up to 10 Ah each and 3 Signature Modules
- 2 Heat sink: Distributes heat away from the circuit board
- 3 Terminal Blocks: Provides connections for all circuits
- 4 Tamper switch standoffs: for optional 3-TAMP tamper switch
- 5 Jumper JP3: Ground fault enable or disable option
- 6 AC LED: AC power on
- 7 Signature Series module mounting brackets
- 8 Jumper JP4: Battery charging jumper
- 9 Circuit LEDs: NAC, battery, and ground fault trouble LEDs
- 10 AC Power terminals
- 11 Battery connection terminals
- 12 Two eight-position DIP switches for BPS configuration
- 13 Jumpers JP1 and JP2: Class A or Class B NAC option
- 14 Batteries: Up to two 10 Ah batteries fit in the enclosure. For larger batteries, use an external battery cabinet (BC-1 or BC-2).

## Mounting brackets

Up to three Signature Series modules can be installed on mounting brackets in the BPS enclosure. These convenient brackets accommodate standard snap-in one or two gang Signature modules, like the SIGA-CC1S, or screw-in security modules like the SIGA-SEC2. Refer to the module's installation sheet for wiring details.



The BPS also features mounting standoffs for the installation of a tamper switch (3-TAMP). The tamper switch detects an open enclosure door and is usually required when the BPS is used to power security devices. You must provide a Signature module to monitor the optional 3-TAMP switch.



# Application Notes

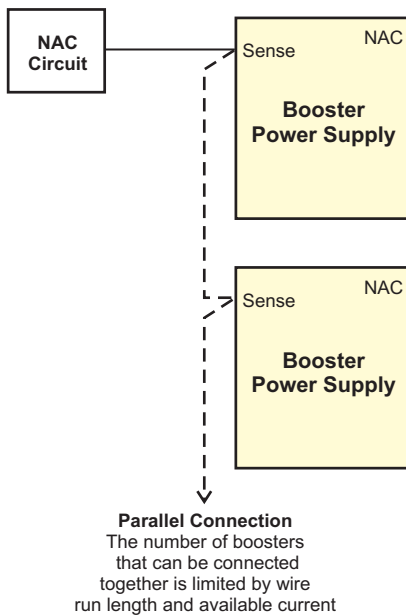
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## Interconnection

Booster Power Supply Sense Inputs may be connected in series or in parallel. The interconnection style best suited for any given application depends on the total number of boosters serving the NAC circuit, the wire run length, and available current.

When cascading boosters serially, that is when down stream boosters are being activated from upstream boosters NAC one booster driving the next driving the next and so on engineered timing delays designed to keep all strobes and horns in synchronization must be taken into account. To ensure that strobes remain in synchronization on all boosters while maintaining agency mandated activation time the maximum number of boosters that should be deployed is 10. Timing requirements by local AHJs may affect this number further.

When paralleling boosters, that is when down stream boosters are being activated via a common NAC circuit the timing considerations for serially deployed boosters does not apply. For parallel boosters the only limit to the number of boosters connected in parallel is the voltage and current available at each booster on the activating NAC circuit.



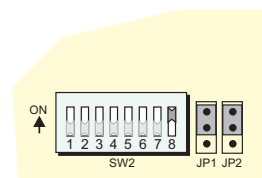
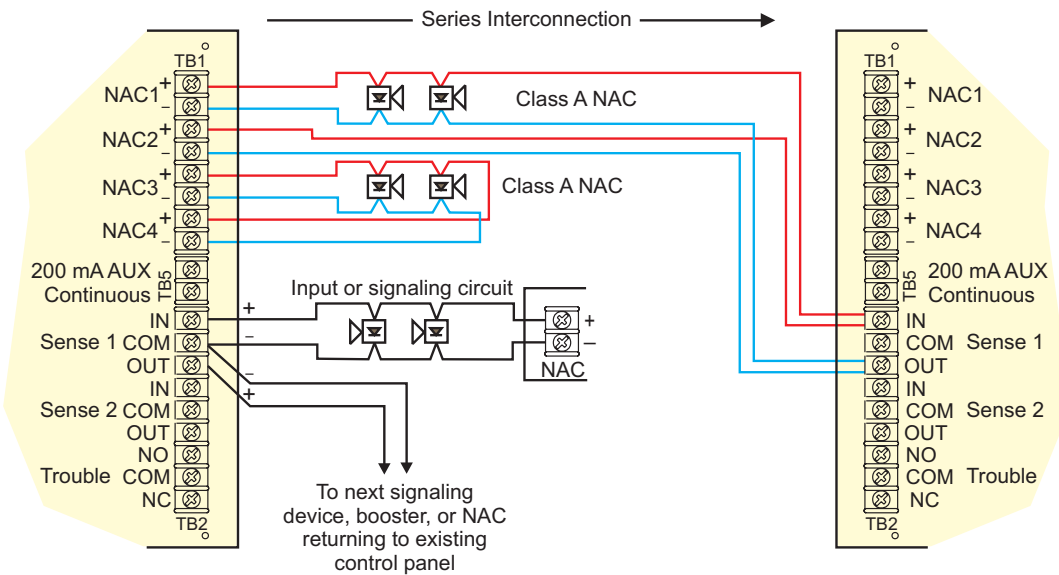
## Device Synchronization

Another factor that has a bearing on the choice of interconnection style is device synchronization. The pulse that synchronizes Genesis and Enhanced Integrity devices may be generated by a G1M Signal Master, a CC1S Module, a panel NAC that supports Genesis synchronization, or by the booster itself. Regardless of the origin of the synch pulse, or its position on the NAC, all Genesis-compatible audible and visible signals will synchronize to the pulse. However, depending on the BPS interconnection style, there is an output activation delay of one or four seconds (determined by dip switch setting). In some cases, particularly when BPSs are interconnected in series, this delay is cumulative for each BPS in the series and could result in lengthy activation delay times for some downstream devices. For more information on device synchronization, consult the Booster Power Supply Manual, P/N 3100485.

## Notification Appliance Circuit (NAC) Class A Wiring

For Class A wiring, connect one NAC circuit to one NAC output, either NAC1 or NAC3. Terminate the circuit at the NAC2 or NAC4 terminal respectively. Each BPS supports two Class A NACs.

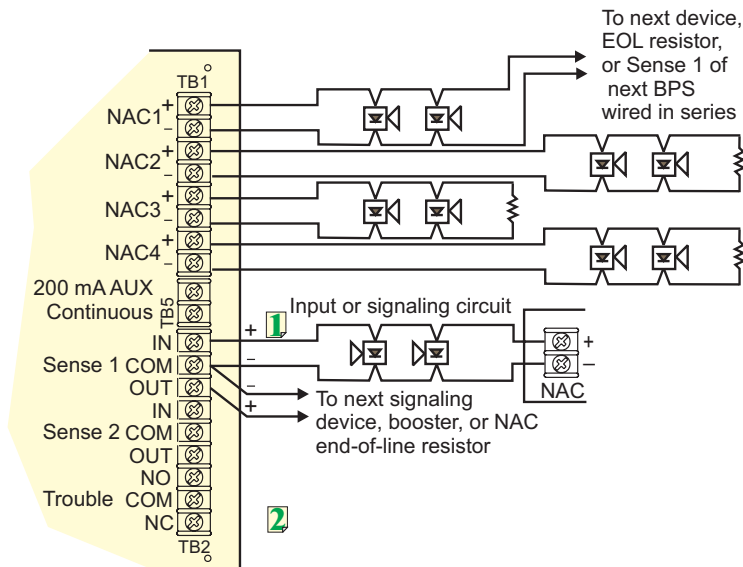
When wiring multiple boosters in series, treat the downstream BPS as an additional device on the Class A loop.



Boosters come factory set for Class B operation. To enable Class A operation, set SW2-8 to the ON position, and jumper JP1 and JP2 as shown.

## NAC Class B wiring

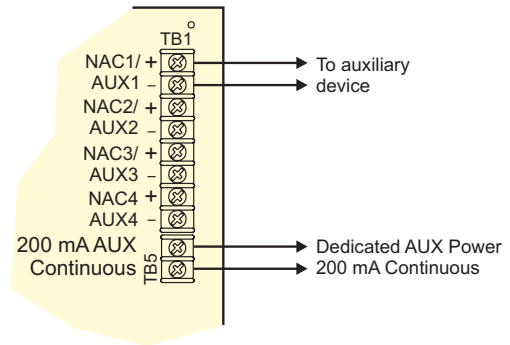
Boosters come factory set for Class B operation. Each BPS supports four Class B NACs. They may be wired as single branch circuits.



## Auxiliary Power

Each BPS provides a dedicated auxiliary circuit offering 200 mA of continuous power ideal for powering the Booster through a Signature module (SIGA-CC1(S)).

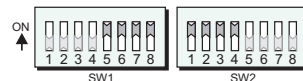
In addition to this dedicated auxiliary circuit, any or all on-board NACs may be configured by means of DIP switch settings to provide added auxiliary power for a wide range of life safety, security, and access control devices including doorlocks, magnetic strikes, and card reader controllers, as well as intelligent devices such as the SIGA-CC1(S) modules.



### Notes

**1** Total continuous auxiliary current draw from 10 Amp Booster should not exceed 8 Amps when powering auxiliary devices. Current available above 8 Amp ceiling (2 Amps) may be used to power intermittent sources such as notification appliances.

**2** There is no need to wire the trouble contact when the host panel supervises the NAC circuit. Booster Trouble will be indicated over the supervised NAC circuit.



Switch shown with all NACs configured for auxiliary power

# Applications

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The following diagrams show some typical dip switch settings as examples only. Please refer to the Booster Power Supply Manual P/N 3100485 for full and precise information on your particular application.

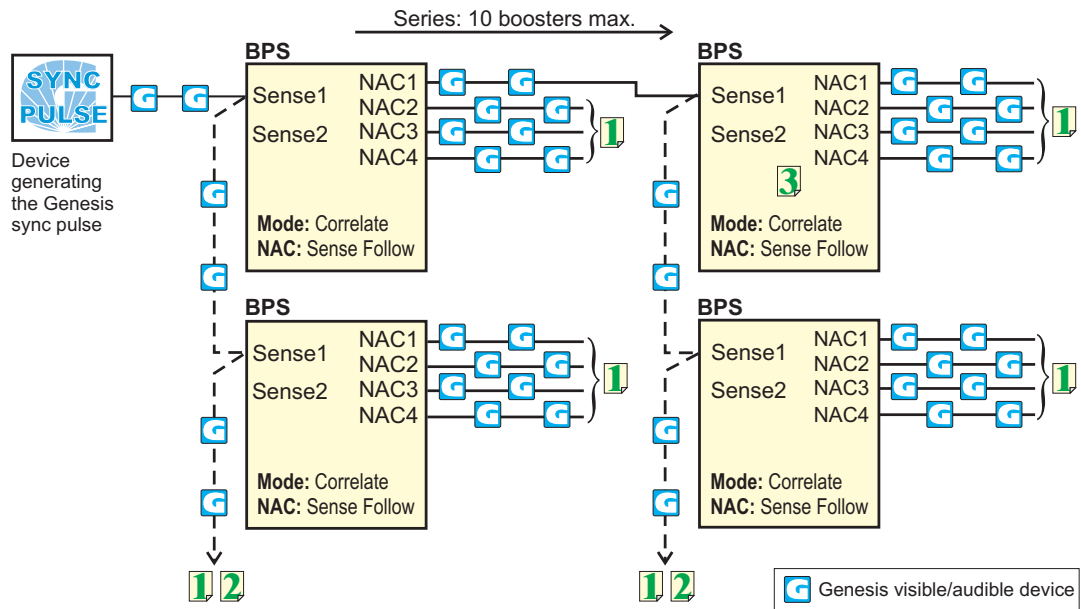
# Genesis Horn/Strobe notification circuit

Use this configuration when Genesis devices reside on the originating NAC and the Genesis synch pulse is generated by a G1M Signal Master or panel NACs that support Genesis horn silence. All visible and audible signals are synchronized and independent horn control is achieved over a single pair of wires.

## Application

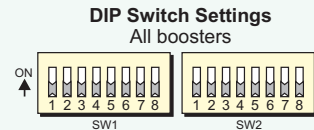
### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance



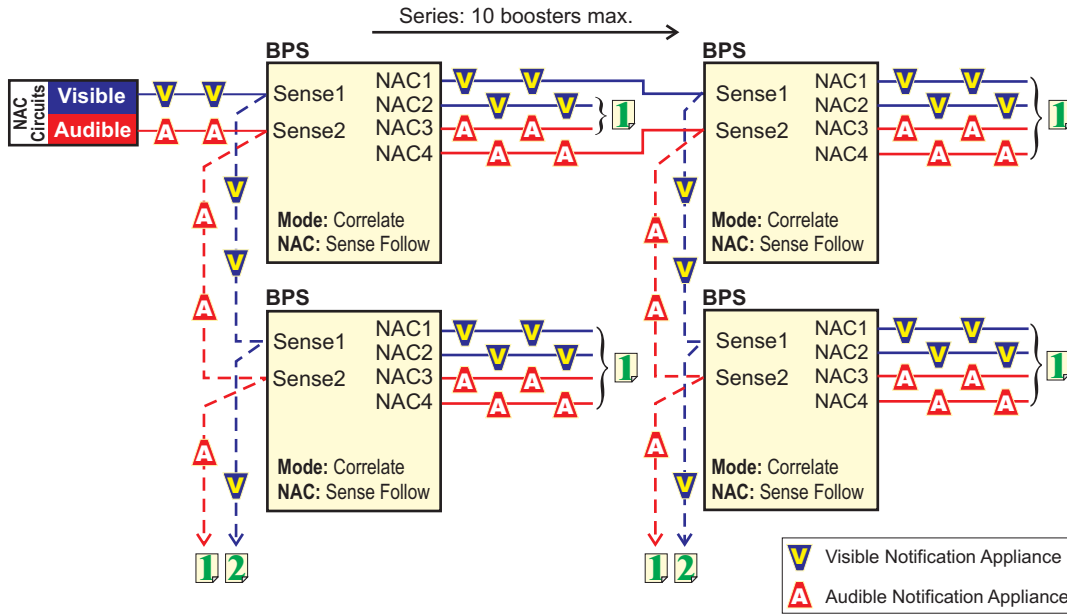
## Notes & Settings

- 1** To next device, booster power supply, or EOL resistor.
- 2** The maximum number of booster power supplies that can be connected on a single NAC from sense circuit to sense circuit is limited by available current and wire run length.
- 3** The activation of the output devices on this BPS will be delayed by one or four seconds from the previous BPS's output devices. For more information, refer to the Booster Power Supply Manual, P/N 3100485.



# Conventional visible and audible notification circuit

Use this configuration for systems that use conventional polarized audible and visible signals. Signals are not synchronized.



## Application Overview

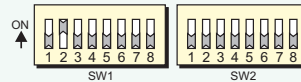
### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance

## Notes & Settings

- 1 To next device, booster power supply, or EOL resistor.
- 2 The maximum number of booster power supplies that can be connected on a single NAC from sense circuit to sense circuit is limited by available current and wire run length.

### DIP Switch Settings All boosters



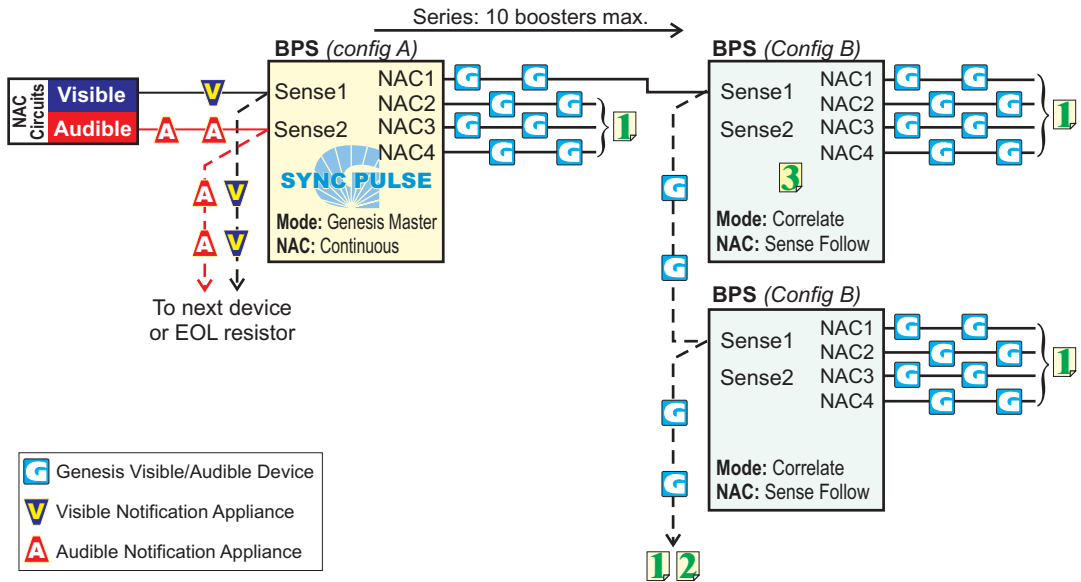
# Conventional visible and audible circuit to Genesis notification circuit

## Application

### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance

With this application, visible and audible signals are wired to separate originating NACs. These NACs connect to each of the two Sense inputs on the first BPS in order to retain separate control over visible and audible devices. Genesis signals are used downstream of the first BPS, which generates the Synch pulse for all Genesis devices on the BPS series. In Genesis Master Mode, the first BPS also provides independent horn control for all downstream Genesis devices. Additional synchronization modules are not required.

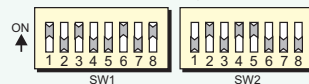


## Notes & Settings

- 1** To next device, booster power supply, or EOL resistor.
- 2** The maximum number of booster power supplies that can be connected on a single NAC from sense circuit to sense circuit is limited by available current and wire run length.
- 3** The activation of the output devices on this BPS will be delayed by one or four seconds from the previous BPS's output devices. For more information, refer to the Booster Power Supply Manual, P/N 3100485.

### DIP Switch Settings

#### Booster Configuration A

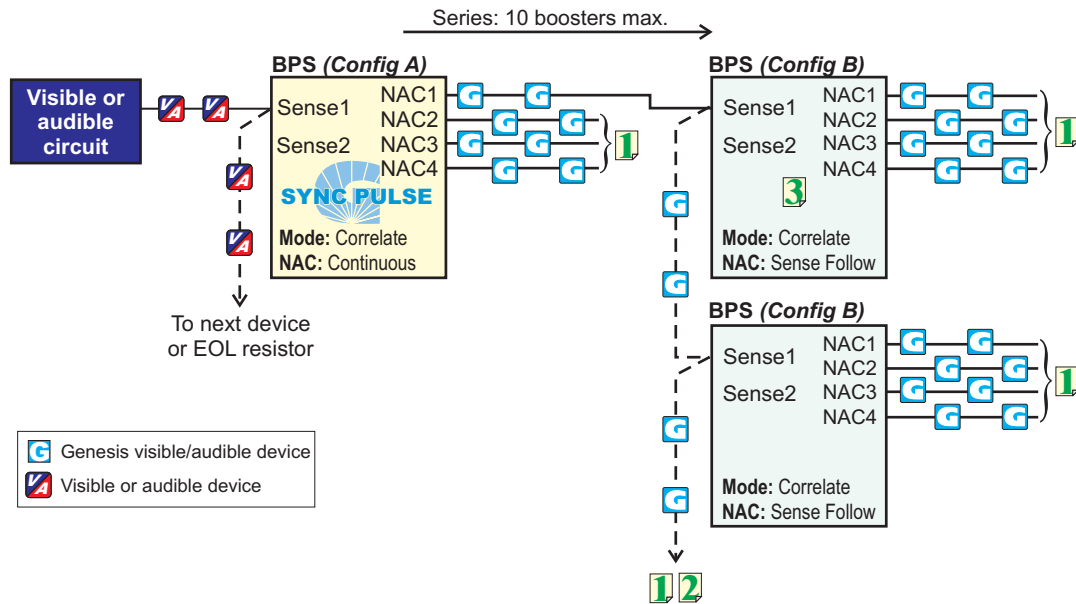


#### Booster Configuration B



# Conventional audible or visible circuit to Genesis notification circuit

This application starts with a single visible or audible NAC connected on one Sense input on the first booster in the series, which generates the Synchron pulse for all Genesis devices on the BPS series. Synchronization modules are not required.



## Application

### Overview

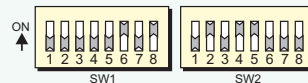
- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance

## Notes & Settings

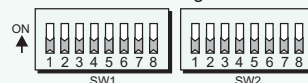
- 1** To next device, booster power supply, or EOL resistor.
- 2** The maximum number of booster power supplies that can be connected on a single NAC from sense circuit to sense circuit is limited by available current and wire run length.
- 3** The activation of the output devices on this BPS will be delayed by one or four seconds from the previous BPS's output devices. For more information, refer to the Booster Power Supply Manual, P/N 3100485.

### DIP Switch Settings

#### Booster Configuration A



#### Booster Configuration B



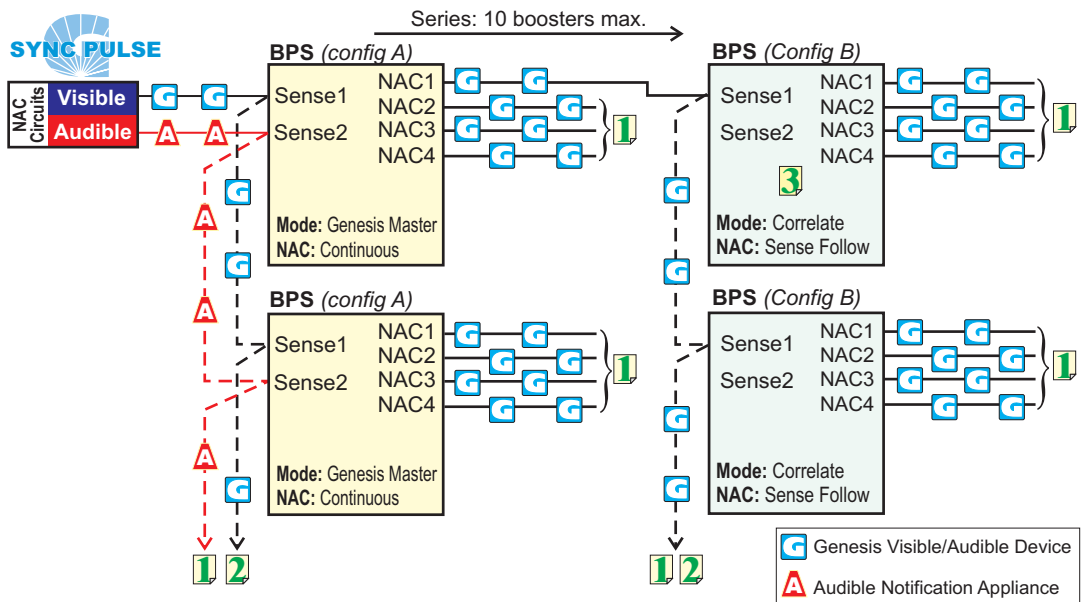
# Genesis visible circuit and conventional audible circuit to Genesis notification circuit

## Application

### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance

This application begins with two separate NACs: one for Genesis strobes and the other for conventional audible devices. Each NAC is connected to one of the two Sense inputs on the first BPS in the series and continue down the parallel BPS line (shown in yellow), retaining separate audible/visible control. The Genesis synch pulse is generated at the control panel or by a master module. This pulse synchronizes all Genesis strobes in the series. In Genesis Mode, the first BPS in the series provides independent horn control for combination Genesis devices that reside on the BPS NACs downstream.

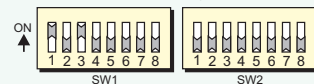


## Notes & Settings

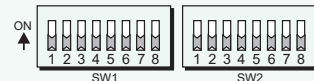
- 1** To next device, booster power supply, or EOL resistor.
- 2** The maximum number of booster power supplies that can be connected on a single NAC from sense circuit to sense circuit is limited by available current and wire run length.
- 3** The activation of the output devices on this BPS will be delayed by one or four seconds from the previous BPS's output devices. For more information, refer to the Booster Power Supply Manual, P/N 3100485.

### DIP Switch Settings

Booster Configuration A

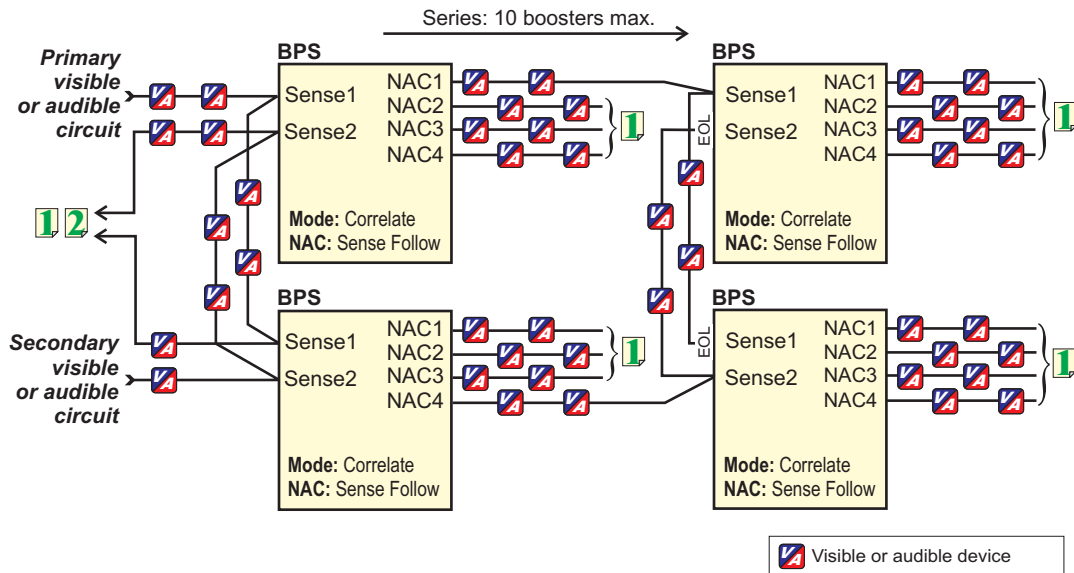


### Booster Configuration B



# Conventional split mode circuit with fault tolerance

Fault tolerance is provided through multiple signaling paths. There is no single point of failure.



## Application

### Overview

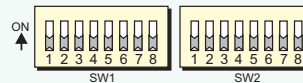
- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance

## Notes & Settings

- 1** To next device, booster power supply, or EOL resistor.
- 2** The maximum number of booster power supplies that can be connected on a single NAC from sense circuit to sense circuit is limited by available current and wire run length.
- 3** The activation of the output devices on this BPS will be delayed by one or four seconds from the previous BPS's output devices. For more information, refer to the Booster Power Supply Manual, P/N 3100485.

### DIP Switch Settings

All boosters



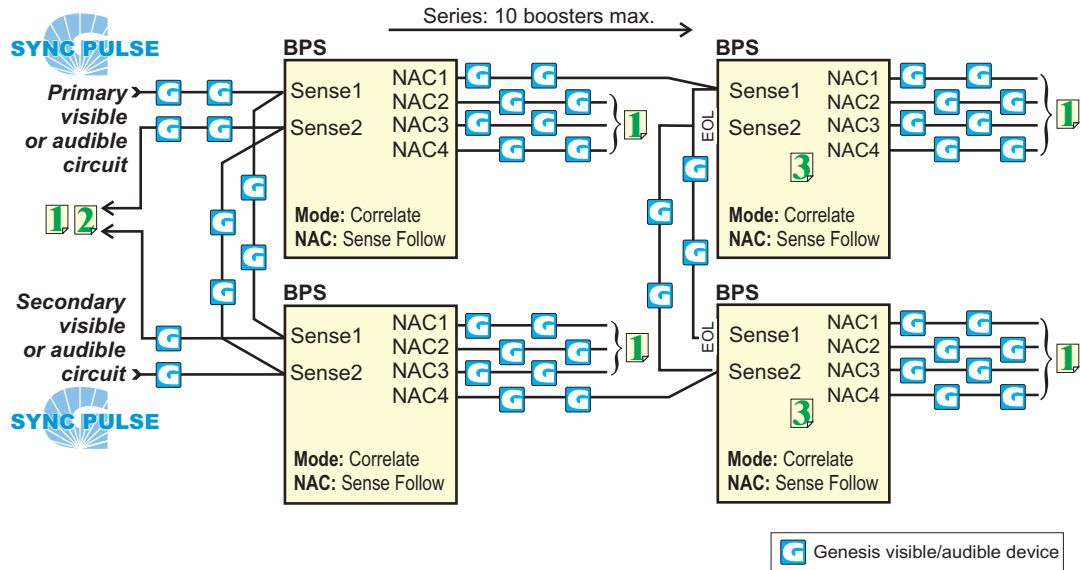
# Genesis split mode circuit with fault tolerance

Fault tolerance is provided through multiple signaling paths. There is no single point of failure.

## Application

### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance

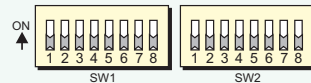


## Notes & Settings

- 1** To next device, booster power supply, or EOL resistor.
- 2** The maximum number of booster power supplies that can be connected on a single NAC from sense circuit to sense circuit is limited by available current and wire run length.
- 3** The activation of the output devices on this BPS will be delayed by one or four seconds from the previous BPS's output devices. For more information, refer to the Booster Power Supply Manual, P/N 3100485.

### DIP Switch Settings

All boosters



Note: Fault tolerance can be increased by using Class A wiring on NAC circuits.

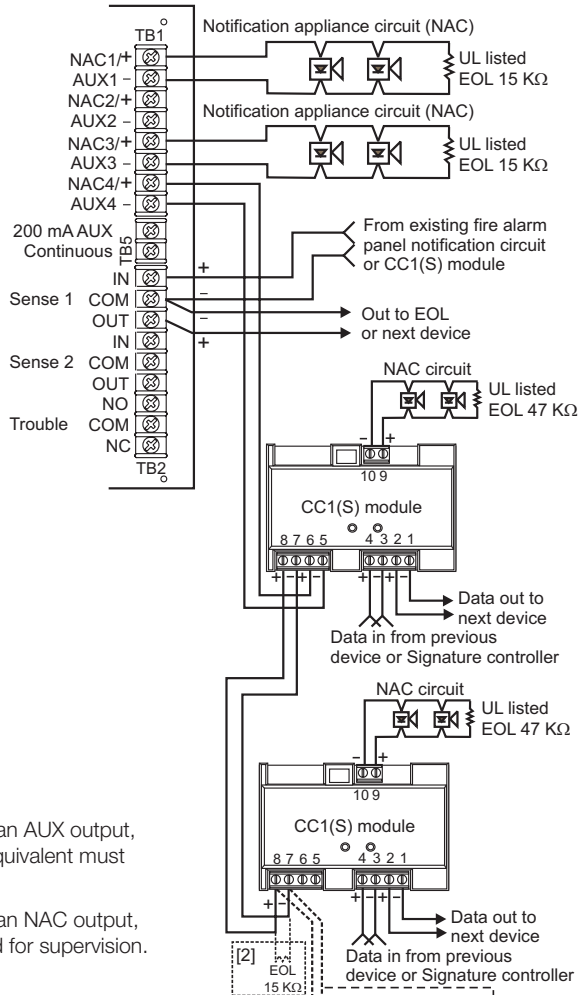


# Multiple CC1(S) modules using one of the BPS's NAC/AUX circuits

## Application

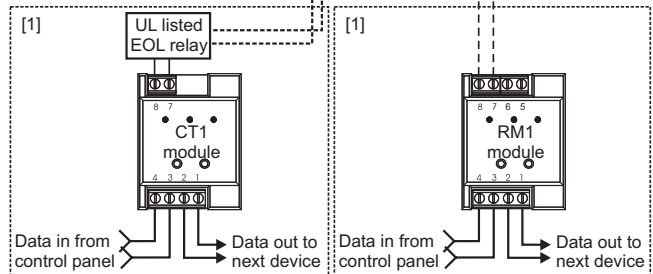
### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance

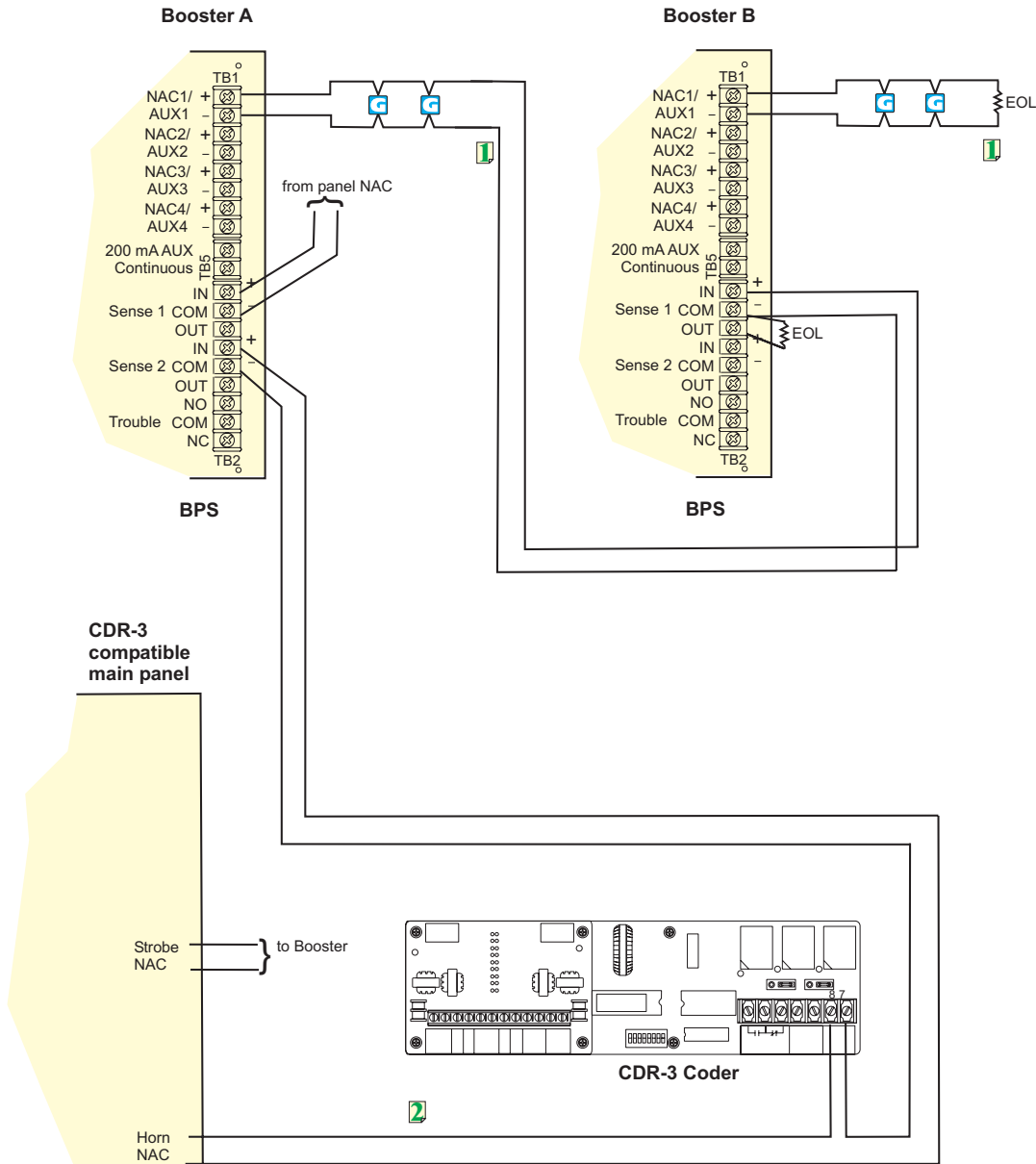


### Notes

- 1 When a BPS output is programmed as an AUX output, a listed EOL relay (P/N RELA-EOL) or equivalent must be used to supervise the AUX output.
- 2 When a BPS output is programmed as an NAC output, a 15 k Ohms EOL resistor must be used for supervision.



# MEA compliance with CDR-3 Coder



## Application

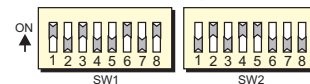
### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance

## Notes

- 1** Cut jumper J1 on Horn/Strobe to enable the ability for horn to follow coder.
- 2** See CDR-3 Install Sheet for wiring details.

### DIP Switch Settings Booster Configuration A



### Booster Configuration B



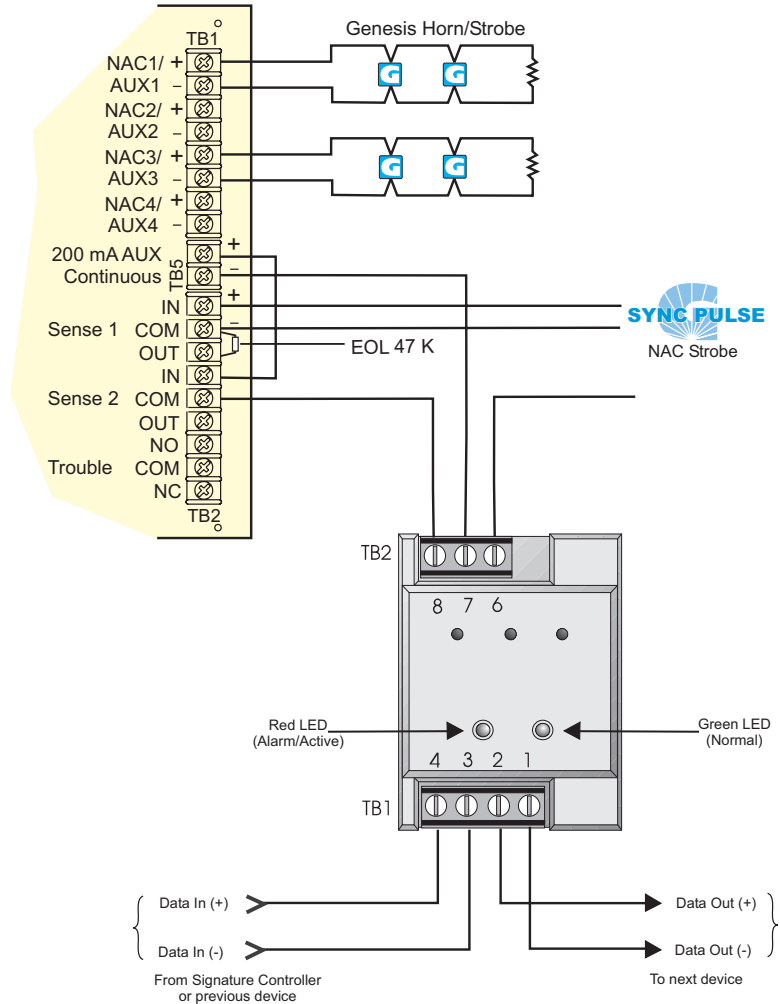
## CR module used for horn silence

The Remote Booster's flexibility allows for activation through many device types, as an example, the SIGA-CR may be used to activate the horn silence function with boosters. When used with common alarm applications the SIGA-CR's device type is selected for "Non-supervised common alarm output". With this selection, any alarm activates the relay, which activates the sense 2 input of the booster. Horn silence is achieved by deactivating the SIGA-CR relay.

### Application

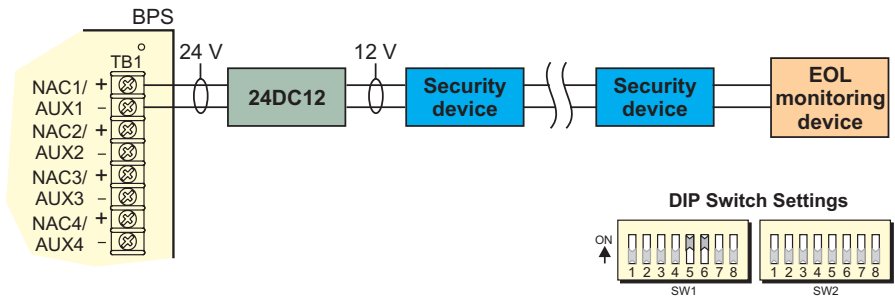
#### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance



# Security Applications

## 12 Volt security application



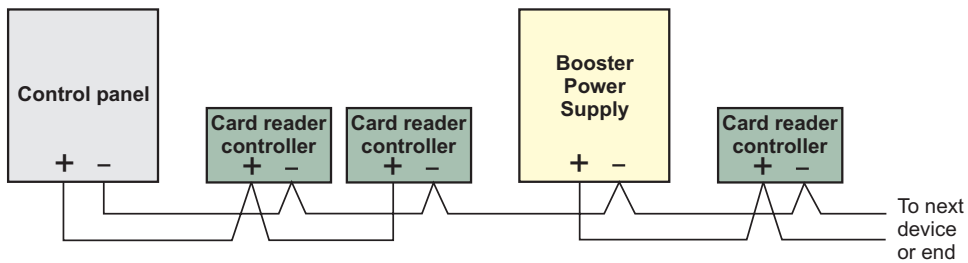
### Application

#### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
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# Access Control Applications

## 12 Volt access control application



### Application

#### Overview

- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance

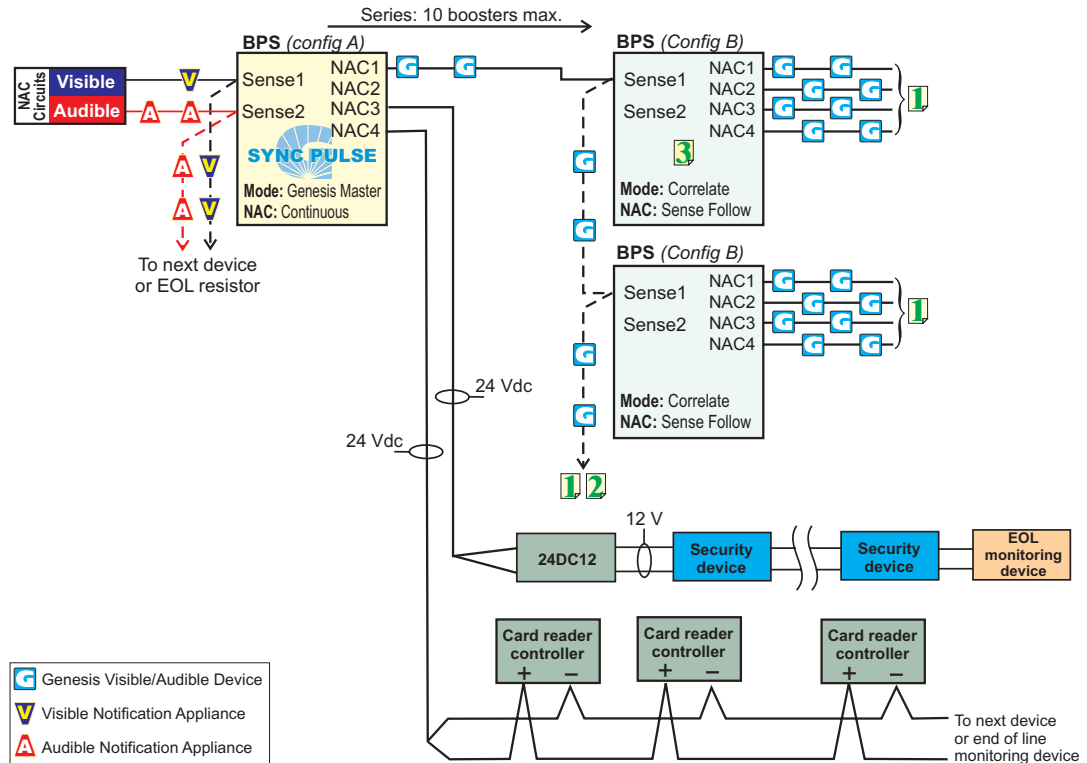
# Multiple Service Application

With this application, visible and audible signals are wired to separate originating NACs. These NACs connect to each of the two Sense inputs on the first BPS in order to retain separate control over visible and audible devices. Genesis signals are used downstream of the first BPS, which generates the Synch pulse for all Genesis devices on the BPS series. In Genesis Master Mode, the first BPS also provides independent horn control for all downstream Genesis devices. Additional synchronization modules are not required. In addition, the first BPS is used to power security and access control devices.

## Application

### Overview

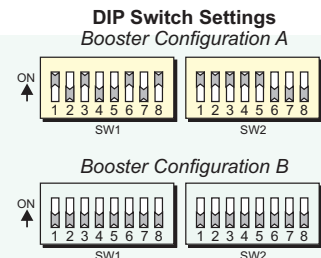
- Fire
- Security
- Access
- Horn
- Strobe
- Horn-Strobe
- Sync (Genesis)
- Non-sync
- Horn silence
- Aux power
- Fault tolerance



## Notes & Settings

- 1 To next device, booster power supply, or EOL resistor.
- 2 The maximum number of booster power supplies that can be connected on a single NAC from sense circuit to sense circuit is limited by available current and wire run length.
- 3 The activation of the output devices on this BPS will be delayed by one or four seconds from the previous BPS's output devices. For more information, refer to the Booster Power Supply Manual, P/N 3100485.

Note: Dip switch settings required for specific applications may be different than those shown.



# Configuration

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# Field configurable options

## Jumpers

- Class A/Class B operation
- Ground fault enabled/disabled
- Charge batteries 6.5 Ah to 10 Ah / 10 Ah and above, 65 Ah for access applications.

## DIP Switches

- **Correlate mode**  
User configurable settings that determine which NACs activate when the sense circuits activate. These correlations do not affect output circuits that are operating as AUX circuits.
- **Genesis Master mode**  
In Genesis Master mode, Sense 1 is connected to a conventional visible NAC and Sense 2 is connected to an audible NAC. All booster NACs are activated when Sense 1 activates.
- **Audible synchronization control**  
Controls the synchronization of the audible signals with either one- or four-second delay times.
- **Sense follow mode**  
In sense follow mode, NACs are activated following the sense circuits that are defined to turn on the NACs. The NACs turn on with a one- or four-second delay to allow Genesis strobes to synchronize on the NAC side and sense side. In this mode, a continuous input, 120 ppm, temporal, or coded input can be used. Note: Sense follow should be used when the sense circuit is connected to a SIGA-CC1S, Genesis G1M-RM, FireShield panel, or a booster power supply generating Genesis sync pulses.
- **Continuous mode**  
In continuous mode, NACs activate one or four seconds (selectable) after the sense input activates and restore seven seconds after the sense input restores.
- **Temporal mode**  
In temporal mode, NACs are activated following the sense circuits in continuous mode. They activate one or four seconds after the sense input activates and restore seven seconds after the sense input restores. NACs generate temporal output as defined by NFPA.
- **Auxiliary mode**  
In auxiliary mode, NACs turn on during power up. Sync pulses are not generated. Aux circuits can be configured to stay active during a power fail or load shed on a power fail (after a 30 second delay). Aux circuits are load shed when the system reaches low battery to prevent deep discharge of the batteries.
- **Genesis mode for continuous NACs**  
When Genesis mode is enabled, continuous NACs are Genesis strobe or horn/strobe circuits. Continuous NACs generate a Genesis sync pulse. In Genesis Master mode, continuous NACs generate Genesis audible on/off signals based on the Sense 2 input circuit. When this mode is disabled, continuous NACs do not generate Genesis signaling pulses
- **AC power loss reporting**  
This feature may be configured to send a report to the system on AC power loss within 20 seconds or it may be set to delay reporting for six hours.
- **Auxiliary control during AC power loss**  
This setting determines whether auxiliary outputs turn off 30 seconds after power fail or whether they stay on during AC power fail until the battery is low  
Note: The 200 mA continuous AUX circuit is not affected by AC power loss.
- **Class A or B NAC configuration**  
Determines whether all NACs operate as Class A or Class B. Note: Jumpers JP1 and JP2 must be set to match the switch setting.



## Application Guide

# Remote Booster Power Supply

A guide to the language of modern building system design

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Also from Edwards:

**85001-0541: Handbook of Visual Notification Appliances for Fire Alarm Applications**

A practical guide to regulatory compliance

**85001-0542: Glossary of Fire Alarm and Security Terminology**

A desk reference for life safety and security professionals

**85010-0139: Installer's Wire Guide**

A concise pocket reference to wire and cable requirements for Edwards products and systems

**85005-0115: QuickStart Submittal Guide**

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