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ADVANCED UROLOGY EXPANSION  
1411 SOUTH POTOMAC ST., SUITE 210  
AURORA, COLORADO 80012

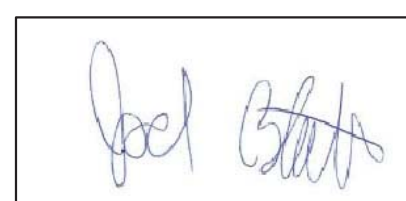
SUBMITTAL PREPARED BY:



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JOB NUMBER: 7684

NATIONAL INSTITUTE FOR CERTIFICATION  
IN ENGINEERING TECHNOLOGIES  
Fire Protection Engineering Technology  
Fire Alarm Systems



Joel Blatt S.E.T.  
NICET #103704 Level IV

EXP. 10/1/2022

DATE: 09/17/20 SCALE: N.T.S.

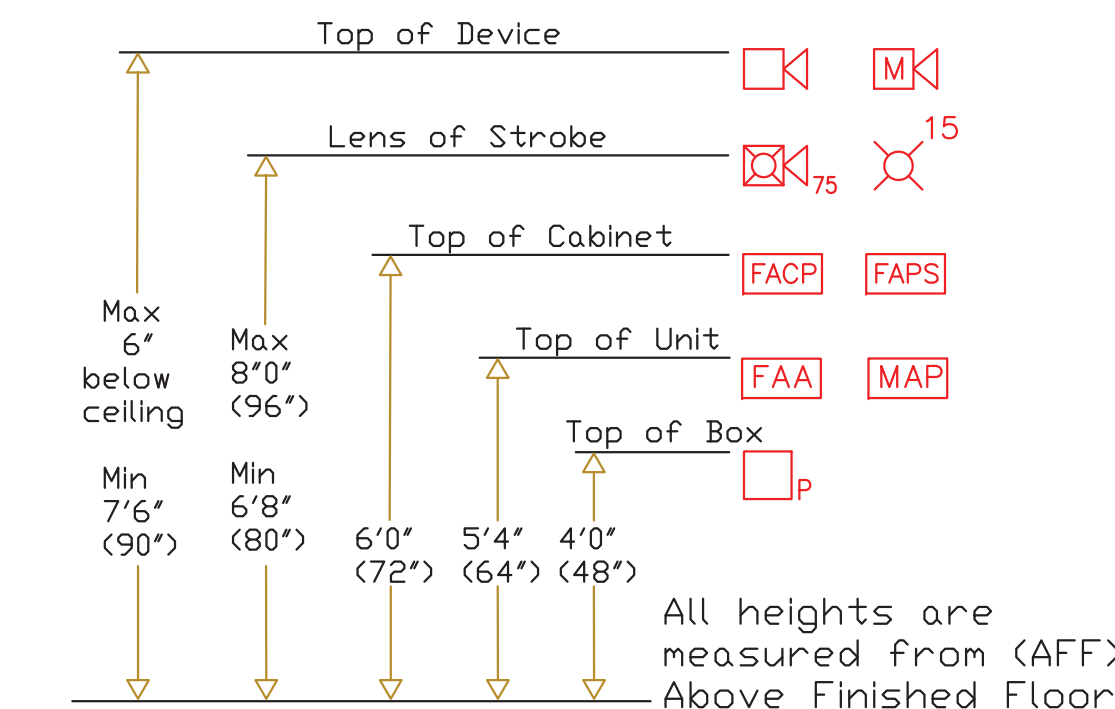
REVISIONS:

PAGE NAME: TITLE PAGE

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SHEET  
1 OF 2

BATTERY CALCULATION							
LOCATION: 1411 S POTOMAC				24	HOURS		
HOURS OF SUPERVISION:				5	MINUTES		
MINUTES OF ALARM:							
PANEL: FIRELITE FCPS 24FS6							
ITEM	QTY	PART NUMBER	DESCRIPTION	Device Supervisory Current	Device Alarm Current	Total Supervisory Current	Total Alarm Current
1	1	FCPS-24S6	POWER SUPPLY BOARD	0.065000	0.145000	0.065000	0.145000
2	19	GCS24C	15cd STROBE CEILING	0.000000	0.120000	0.000000	2.280000
3	3	GCC24C	15cd HORN/STROBE CEILING	0.000000	0.143000	0.000000	0.429000
4	2	GCC24C	75cd HORN/STROBE CEILING	0.000000	0.223000	0.000000	0.446000
				TOTAL:		0.065000	3.300000
SUPERVISORY:							
SUB-TOTAL:				0.065000	AMPS		
24 HOURS OF SUPERVISORY:				24.000000	HOURS		
SUB-TOTAL:				1.560000	AMP HOURS		
ALARM:							
SUB-TOTAL:				3.300000	AMPS		
5 MINUTES OF ALARM:				0.083333	HOURS		
SUB-TOTAL:				0.275000	AMP HOURS		
TOTALS:							
TOTAL SUPERVISORY:				1.560000	AMP HOURS		
TOTAL ALARM:				0.275000	AMP HOURS		
TOTAL:				1.835000	AMP HOURS		
SPARE OF 20% (SPARE)				0.367000	AMP HOURS		
MINIMUM BATTERY SIZE REQUIRED				2.202000	AMP HOURS		
BATTERIES SUPPLIED				7.000	AMP HOURS		



DEVICE MOUNTING HEIGHTS

POWER SUPPLY			VOLTAGE DROP CALCULATION											
PANEL : FIRELITE FCPS 24FS6			LOCATION: 1411 S POTOMAC											
TOTAL CURRENT AVAILABLE FOR DEVICES	CIRCUIT NUMBER	CIRCUIT TYPE	CURRENT PER CIRCUIT	DEVICES	QUAN	CURRENT PER DEVICE	TOTAL CURRENT PER DEVICE	CURRENT PER CIRCUIT REMAINING	CIRCUIT OUTPUT VOLTAGE	WIRE GAGE	ESTIMATED ONE-WAY WIRE DISTANCE	VOLTAGE DROP	CIRCUIT FINAL VOLTAGE	MIN. OPERATE VOLTAGE
6.000	Circuit 1A	NAC	3.000	15cd STROBE C	13	0.12	1.560	1.440	20.4	14				
				15cd H/S C	2	0.143	0.286	1.154	20.4	14				
				75cd H/S C	2	0.223	0.446	0.708	20.4	14	175	2.559	17.841	16.000
	Circuit 2A	NAC	3.000	15cd STROBE C	6	0.12	0.720	2.280	20.4	14				
				15cd H/S C	1	0.143	0.143	2.137	20.4	14	160	0.881	19.519	16.000
PANEL TOTALS														
TOTAL POWER USED		3.155		NOTES:						NEC 2017 TABLE 8				
TOTAL CURRENT AVAIL:		6.000		Current draws are Average (RMS) amperes. All voltage calculations are in volts D.C. Voltage drops are calculated assuming all of the load is at the end of the circuit. Voltage Drop = Resistance X (one way wire Distance X2) X circuit Amps C=CEILING MOUNTED						wire gage resistance ohms per 1000 feet				
TOTAL CURRENT REMAINING		2.845								12 2.01 14 3.19 16 5.08 18 8.08				

VOLTAGE DROP CALCULATIONS POWER SUPPLY

Existing tenant expansion in existing sprinkled building.  
Existing Simplex fire alarm system.  
Installation of new synchronized temporal sounding horn/strobes.  
Occupancy Group: B Area: 1,031sf. Construction Type: II-B  
Codes Used: 2015ed. IFC, 2013ed NFPA 72, NEC 2020ed.

SCOPE OF WORK

SYMBOL	DESCRIPTION
	FIRE ALARM POWER SUPPLY
	SMOKE DETECTOR (PHOTOELECTRIC)
	STROBE (NUMBER INDICATES CANDELA)
	C INDICATES CEILING MOUNTED
	HORN WITH STROBE (NUMBER INDICATES CANDELA)
	C INDICATES CEILING MOUNTED
	END OF LINE RESISTOR

LEGEND

DESCRIPTION	CLASS	TYPE
HORN/STROBE CIRCUITS	B	2 #14 AWG FPLP

WIRE CHART

		System Outputs									
		Control Panel Annunciation			Notification			Safety Control			
1	Smoke Detector	X	X	X							
2	Pull Station	X	X	X							
3	Sprinkler Water Flow Switch										
4	Sprinkler Tamper Valve										
5	Ground Fault										
6	Open Circuit										
7	Notification Circuit Trouble										
8	Low Battery										
9	AC Power Failure										
10	Communicator Trouble Condition										

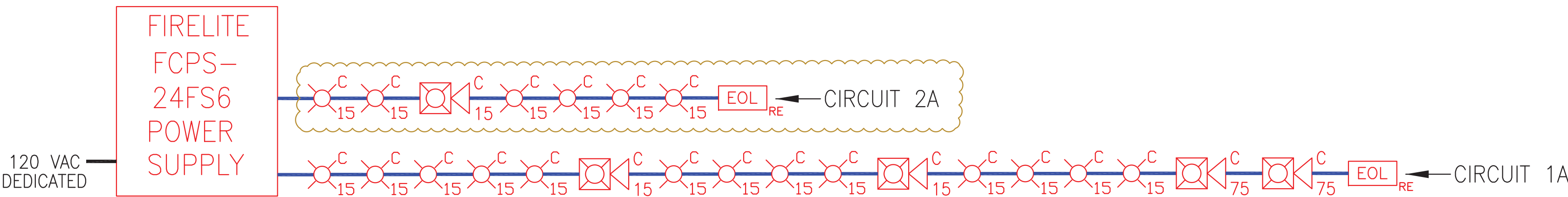
Note: The existing elevator has recall and power shunt.

SEQUENCE OF OPERATIONS

QUAN.	PART #	DESCRIPTION
6	GCS24C	GENTEX MULTI CANDELA STROBE CEILING
1	GCC24C	GENTEX MULTI CANDELA HORN/STROBE CEILING

NEW MATERIALS LIST

THE NEW DEVICES ARE CLOUDED



ONE LINE DIAGRAM

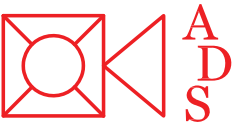




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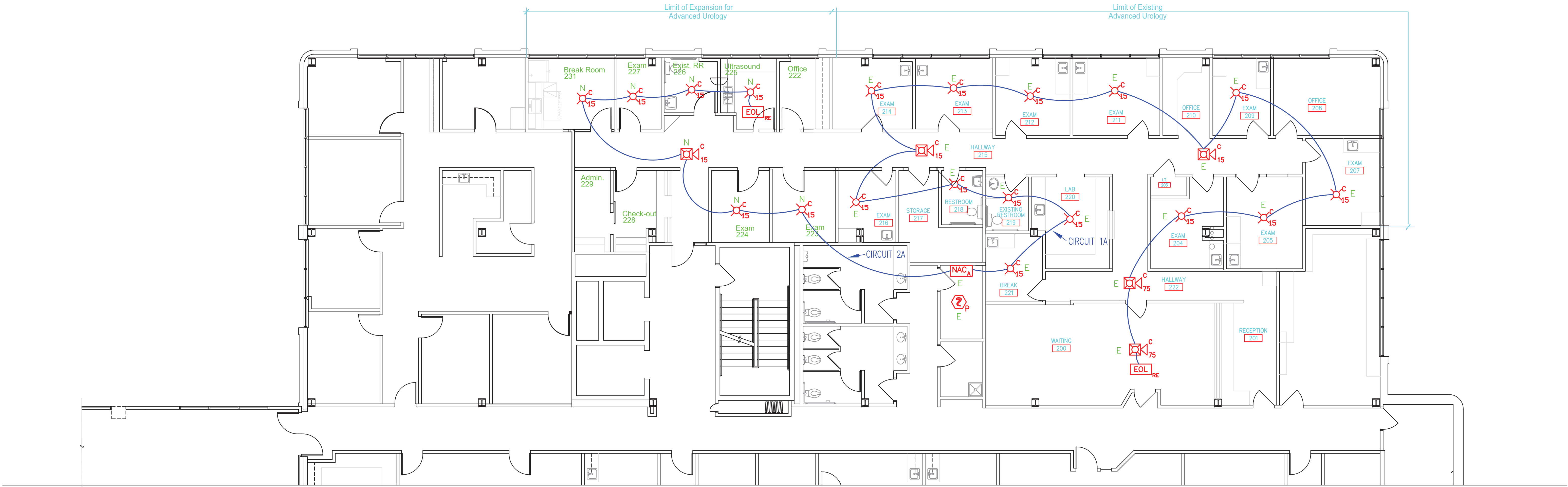
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REVISIONS:

PAGE NAME: FLOOR PLAN

FA-2

SHEET  
2 OF 2



## PARTIAL 2ND FLOOR FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"



0 5 10 15 FEET

NOTE: FLAT DROP CEILING AT 8 FOOT

SYMBOL	DESCRIPTION
	FIRE ALARM POWER SUPPLY
	SMOKE DETECTOR (PHOTOELECTRIC)
	STROBE (NUMBER INDICATES CANDELA)
	C INDICATES CEILING MOUNTED HORN WITH STROBE (NUMBER INDICATES CANDELA)
	C INDICATES CEILING MOUNTED HORN WITH STROBE (NUMBER INDICATES CANDELA)
	END OF LINE RESISTOR
	EXISTING DEVICE
	NEW DEVICE
	LEGEND

# FCPS-24FS6

## 24 Volt, 6 Amp Power Supply



### Power Supplies/Accessories

#### General

The **Fire•Lite FCPS-24FS6(C/E)** is a compact, cost-effective, 6-amp remote power supplies with battery charger. The FCPS-24FS6(C/E) may be connected to any 12 or 24 volt fire alarm control panel (FACP) or may stand-alone. Primary applications include notification appliance (bell) circuit (NAC) expansion (to support ADA requirements and NAC synchronization) or auxiliary power to support 24 volt system accessories. The FCPS provides *regulated and filtered* 24 VDC power to four notification appliance circuits configured as either two Class B (Style Y) and Class A (Style Z, with ZNAC-4 option module) or four class B only. Alternately, the four outputs may be configured as any combination of resettable/non-resettable power outputs (optimal for powering four-wire smoke detectors). The FCPS-24FS6(C/E) also contains a battery charger capable of charging up to 7.0 Amp hour batteries. FCPS-24FS6(C/E) is ULC-listed.

**NOTE:** Unless otherwise specified, the term FCPS-24FS6 used in this document refers to the standard FCPS-24FS6, FCPS-24FS6C, FCPS-24FS6E

#### Features

- UL-Listed Notification Appliance Circuit (NAC) synchronization using System Sensor, Wheelock, or Gentex "Commander<sup>2</sup>" appliances.
- Operates as a "sync-follower" or as a "sync-generator" (default). *See note on page 2.*
- Contains two fully-isolated input/control circuits - triggered from FACP NAC (NAC expander mode) or jumped permanently "ON" (stand-alone mode).
- Two Class B (Style Y) or Class A (Style Z, with ZNAC-4 module) NACs (circuits 1 & 3)
- 6-amp full load output, with 3 amps maximum/circuit, in NAC expander mode (UL 864).
- 4-amp continuous output in stand-alone mode (UL 1481).
- Compatible with coded inputs; signals passed through.
- Optional power-supervision relay (EOLR-1).
- In stand-alone mode, output power circuits may be configured as: resettable, (reset line from FACP required), non-resettable, or a mix of two and two.
- Fully regulated and filtered power output - optimal for powering four-wire smoke detectors, annunciators, and other system peripherals requiring regulated/filtered power.
- Power-limiting technology meets UL power-limiting requirements.
- Form-C normally-closed trouble relay.
- Fully supervised power supply, battery, and NACs.
- Selectable earth fault detection.
- AC trouble report selectable for immediate 2-hour delay.
- Works with virtually any UL 864 fire alarm control which utilizes an industry-standard reverse-polarity notification circuit (including unfiltered and unregulated bell power).
- Requires input trigger voltage of 9 - 32 VDC.
- Self-contained in compact, locking cabinet - 15"H x 14.5"W x 2.75"D (cm: 38.1H x 36.83W x 6.985D).



- Includes integral battery charger capable of charging up to 18 AH batteries. Cabinet capable of housing 7.0 AH batteries.
- Battery charger may be disabled via DIP switch for applications requiring larger batteries.
- Fixed, clamp-type terminal blocks accommodate up to 12 AWG (3.1mm<sup>2</sup>) wire.

#### Specifications

##### Primary (AC) Power:

- FCPS-24FS6: 120 VAC, 60 Hz, 3.2A maximum.
- FCPS-24FS6/E: 240 VAC, 50 Hz, 1.6A maximum.
- Wire Size: minimum #14 AWG (2.0mm<sup>2</sup>) with 600 V insulation.

##### Control Input Circuit:

- **Trigger Input Voltage:** 9 to 32 VDC.
- **Trigger Current:** 2.0 mA (16 - 32 V); Per Input: 1.0 mA (9 - 16 V).

##### Trouble Contact Rating:

5 A at 24 VDC.

##### Auxiliary Power Output:

Specific application power 500 mA maximum.

##### Output Circuits:

- +24 VDC filtered, regulated.
- 3.0 A maximum for any one circuit.
- Total continuous current for all outputs (stand-alone mode):
  - FCPS-24F: 4.0 A maximum.
- Total short-term current for all outputs (NAC expander mode):
  - FCPS-24F: 6.0 A maximum.

### Secondary Power (Battery) Charging Circuit:

- Supports lead-acid batteries only.
- Float-charge voltage: 27.6 VDC.
- Maximum current charge: 250 mA.
- Maximum battery capacity: 7.0 AH.

### Applications

**Example 1:** Expand notification appliance power an additional 6.0 A. Use up to four Class B (Style Y) outputs or four Class A (Style Z) outputs (using ZNAC-4). For example, the FACP notification appliance circuits will activate the FCPS when reverse-polarity activation occurs. Trouble conditions on the FCPS are sensed by the FACP through the notification appliance circuit.

**Example 2:** Use the FCPS to expand auxiliary regulated 24-volt system power up to 4.0 A. Both resettable and non-resettable power options are available. Resettable outputs are created by connecting the resettable output from the FACP to one or both of the FCPS inputs.

**Example 3:** Use addressable control modules to activate the FCPS instead of activating it through the FACP notification appliance circuits. This typically allows for mounting the FCPS at greater distances\* away from the FACP while expanding system architecture in various applications.

For example, an addressable control module is used to activate the FCPS, and an addressable monitor module is used to sense FCPS trouble conditions. Local auxiliary power output from the FCPS provides power to the addressable control module.

***\*NOTE:** Addressable FACP's are capable of locating control and monitor modules at distances of up to 10,000 feet (3,046 meters) .*

### Sync Follower/Generator Note

In some installations, it is necessary to synchronize the flash timing of all strobes in the system for ADA compliance. Strobes accomplish this by monitoring very short timing pulses on the NAC power which are created by the FACP. When installed at the end of a NAC wire run, the FCPS-24FS6 can track (i.e. "follow") the strobe synchronization timing pulses on the existing NAC wire run. This maintains the overall system flash timing of the additional strobes attaches to the FCPS.

When the FCPS-24FS6 is configured (via DIP switch settings) as a "sync follower," the FCPS's NAC outputs track the strobe synchronization pulses present at the FCPS's sync input terminal. The pulses originate from an upstream FACP or other power supply.

When the FCPS-24FS6 is configured (via DIP switch settings) as a "sync generator," the FCPS's sync input terminals are not used. Rather, the FCPS is the originator of the strobe synchronization pulses on the FCPS's NAC outputs. In "sync generator" mode, the sync type (System Sensor, Wheelock, or Gentex) is selectable via DIP switch settings.

### Standards and Codes

The FCPS-24FS6 complies with the following standards:

- **NFPA 72** National Fire Alarm Code.
- **UL 864** Standard for Control Units for Fire Alarm Systems (NAC expander mode).
- **UL 1481** Power Supplies for Fire Alarm Systems.

### Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S2424, S1287
- **ULC Listed:** S2424
- **CSFM Approved:** 7315-0076:176
- **MEA:** 387-94E

### Ordering Information

**FCPS-24FS6:** 6.0 A, 120 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions.

**FCPS-24FS6** is ULC-listed.

**FCPS-24FS6E:** 6.0 A, 240 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions.

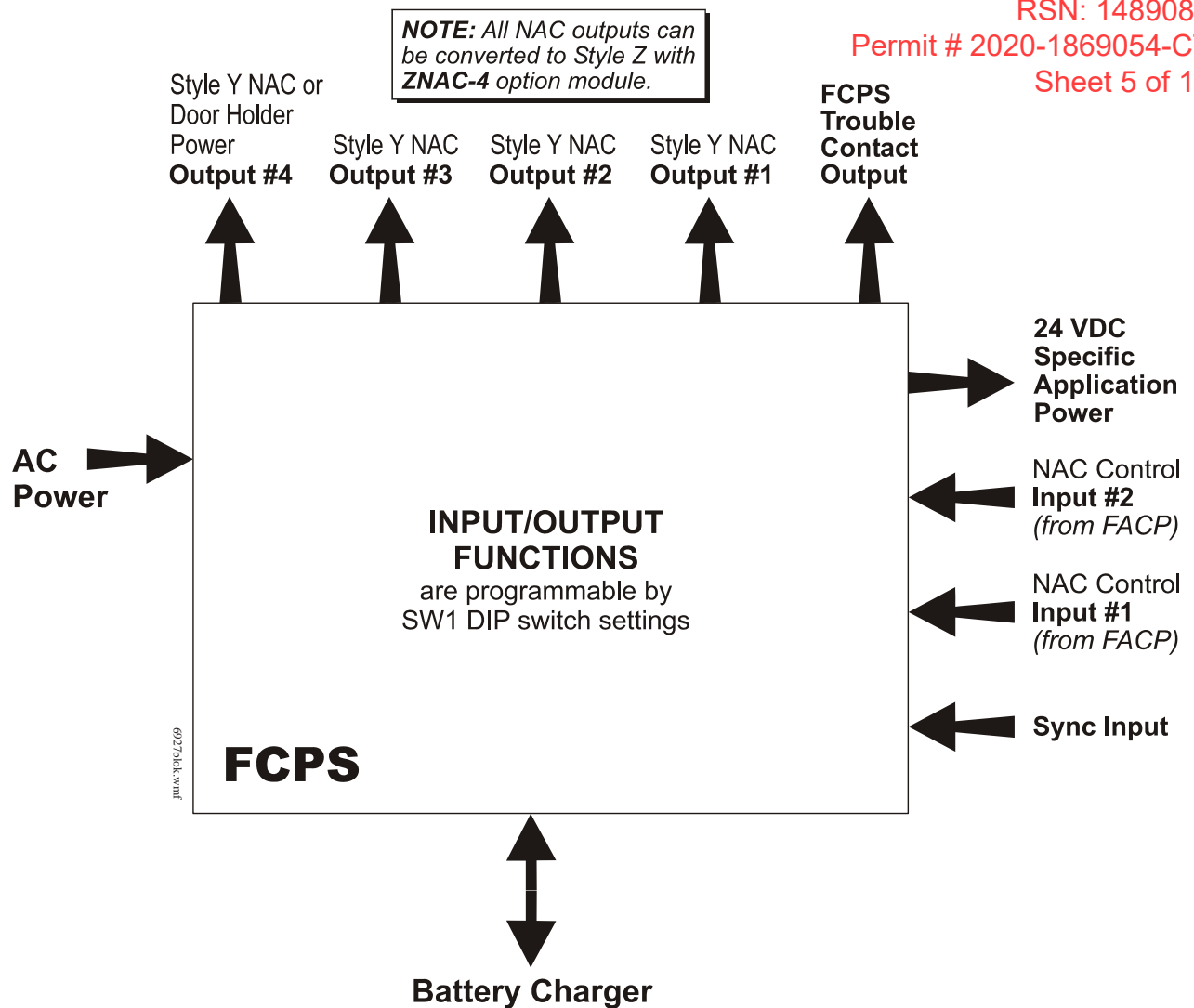
**ZNAC-4:** Class A (Style Y) NAC option module.

**EOLR-1:** 12/24 VDC end-of-line relay for monitoring four-wire smoke detector power.

**BAT-1270:** Battery, 12-volt, 7.0 AH (two required).

**PS-1270:** Battery, 12-volt, 7.0 AH (two required).

**90286:** Optional module mounting kit, is required to install an addressable module on the power supply main circuit board.



Simplified Block Diagram



**ISO 9001**  
**CERTIFIED**  
**ENGINEERING & MANUFACTURING**  
**QUALITY SYSTEMS**



Made in the U.S. A

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## Commander<sup>4</sup> Series Selectable Candela Evacuation Signals

### Applications

The GCS/GCC Series is a ceiling mount strobe or horn/strobe combination that offers dependable audible and visual alarms and the lowest current consumption.

The GCS/GCC offers tamperproof field selectable candela options of 15, 30, 75, 95, 115 and 150 candela.

The GCC horn offers a continuous or synchable temporal three in 2400Hz and mechanical tone. All tones are easy for the professional to change in the field by using switches. The models are shipped from the factory in the temporal three alarm mode.

The GC Series has a very minimal operating current and has a minimum flash rate of 1Hz regardless of input voltage.

The Commander<sup>4</sup> Series comes standard with the 4" mounting plate which incorporates the popular Super-Slide<sup>®</sup> feature that allows the installer to easily test for supervision. The product also features a locking mechanism which secures the product to the bracket without any screws showing.

The Commander<sup>4</sup> also features the patented Checkmate<sup>®</sup> - Instant Voltage Verification feature which allows the installer to check the voltage drop draw without removing the signal.

The GC Series appliances are ANSI/UL 464 and ANSI/UL 1971 listed for use with fire protective systems and are warranted for three years from the date of purchase.

### Standard Features

- Nominal voltage 24VDC
- Tamperproof field selectable candela options of 15, 30, 75, 95, 115 & 150
- Super-Slide<sup>®</sup> Bracket - Ease of Supervision Testing
- Checkmate<sup>®</sup> - Instant Voltage Verification
- Unit Dimensions: 6" (15.24 cm) x 2.6" (6.604 cm)
- Synchronize strobe and/or horn with Gentex AVSM Control Module
- Prewire entire system, install mounting bracket, then install signals
- Documented lower installation and operating costs
- Input Terminals 12 to 18 AWG
- Switch Selection for High or Low dBA
- Switch Selection for 2400Hz or Mechanical Tone
- Switch Selection for Continuous or Temporal 3
- Tamperproof re-entrant grill
- Surface mount with the GCSB (Gentex Ceiling Surface Mount Box)
- Silence audible while visual appliance will remain flashing (for use in accepted jurisdictions)
- Faceplate available in red or off-white

## GCS/GCC 24VDC

## S E R I E S



### Product Listings

#### SIGNALING



- ANSI/UL 464 and ANSI/UL 1971 Listed
- FM Approved
- CSFM: 7135-0569:122 (GCC)  
7125-0569:123 (GCS)
- MEA: 285-91-E

### Patents

- 7,375,617 May 20, 2008

### Product Compliance

- NFPA 72
- Americans with Disabilities Act (ADA)
- IBC/IFC/IRC
- City & State ordinances/Laws/Regulations
- Quality Management System is certified to:  
ISO 9001:2008



**GCS Series 24 Volt Ceiling Mount Selectable Strobe**

Model Number	Part Number	Nominal Voltage	Candela
GCS24CR	904-1213-002	24VDC	15, 30, 75, 95, 115, 150
GCS24CW	904-1215-002	24VDC	15, 30, 75, 95, 115, 150
GCS24PCR	904-1214-002	24VDC	15, 30, 75, 95, 115, 150
GCS24PCW	904-1216-002	24VDC	15, 30, 75, 95, 115, 150

**GCC Series 24 Volt Ceiling Mount Selectable Horn/Strobe**

Model Number	Part Number	Nominal Voltage	Candela	Reverberant dBA @ 10ft. per ANSI/UL 464	In Anechoic Room dBA @ 10ft.
GCC24CR	904-1209-002	24VDC	15, 30, 75, 95, 115, 150	81-86	90
GCC24PCR	904-1210-002	24VDC	15, 30, 75, 95, 115, 150	81-86	90
GCC24CW	904-1211-002	24VDC	15, 30, 75, 95, 115, 150	81-86	90
GCC24PCW	904-1212-002	24VDC	15, 30, 75, 95, 115, 150	81-86	90

**Model Designations:**

C = Ceiling Mount

R = Red Faceplate

W = White Faceplate

All units are available in plain (no lettering).

**Plain units are non-returnable.****GC24 Product Strobe Current Ratings (mA)**

	Candela	15cd	30cd	75cd	95cd	115cd	150cd
24VDC (16-33 Volts)	24VDC	72mA	101mA	167mA	200mA	214mA	286mA
	UL Max <sup>1</sup>	120mA	120mA	200mA	220mA	290mA	321mA

**GCC24 Product Horn Decibel and Current Ratings (mA)**

Horn Mode	Minimum dBA @ 10ft. per ANSI/UL 464 (HIGH)	Minimum dBA @ 10ft. per ANSI/UL 464 (LOW)	Regulated 24VDC Max. Operating @ High Setting (mA)
Temp 3 2400Hz	83	75	23
Temp 3 Mechanical	81	73*	22
Continuous 2400Hz	86	78	23
Continuous Mechanical	84	76	22

**NOTES:**

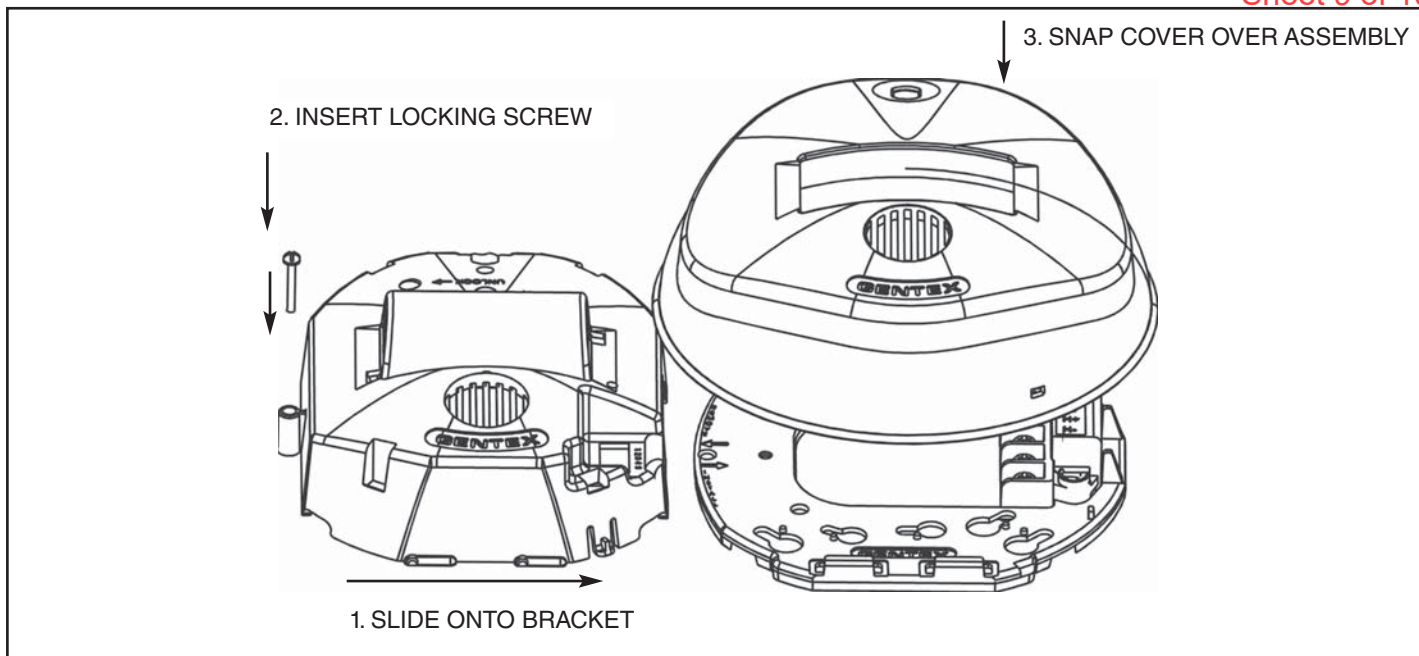
- Operating temperature: 32° to 120°F (0° to 49°C). The GC Series is not listed for outdoor use.
- The sound output for the temporal 3 tone is rated lower since the time the horn is off is averaged into the sound output rating. While the horn is producing a tone in the temporal 3 mode its sound pressure is the same as the continuous mode.
- For nominal and peak current across UL regulated voltage range for filtered DC power and unfiltered (FWR [Full Wave Rectified]) power, see installation manual.
- Gentex does not recommend using a coded or pulsing signaling circuit with any of our strobe products (see Technical Bulletin Number 014).
- \* Operating the horn in this mode at this voltage will result in not meeting the minimum ANSI/UL 464 reverberant sound level required for public mode fire protection service. These settings are acceptable only for private mode fire alarm use. Use the high dBA setting for public mode application (not applicable when using the chime tone. The chime tone is always private mode).

<sup>1</sup> RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33VDC for 24VDC units). For strobes the UL max current is usually at the minimum listed voltage (16VDC for 24VDC units). For audibles the max current is usually at the maximum listed voltage. For unfiltered FWR ratings, see installation manual.

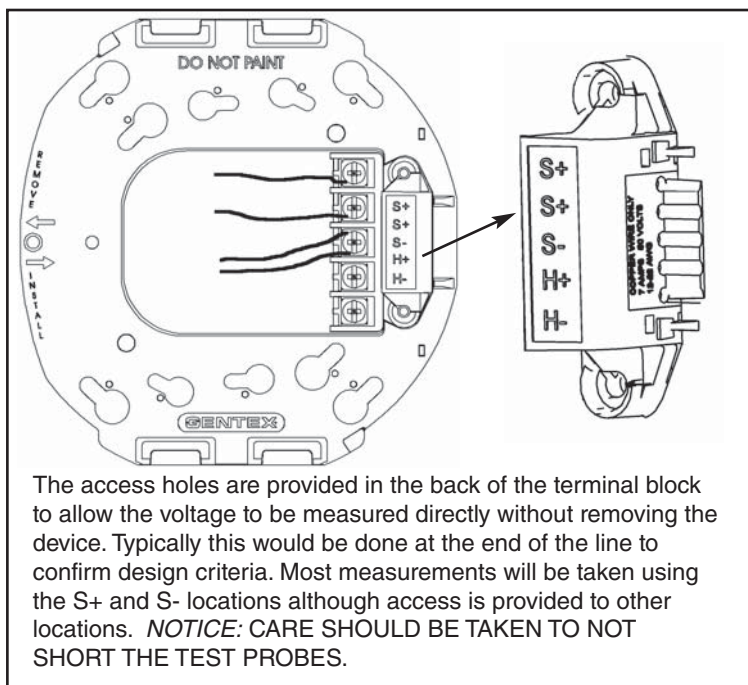


## Mounting Super-Slide®

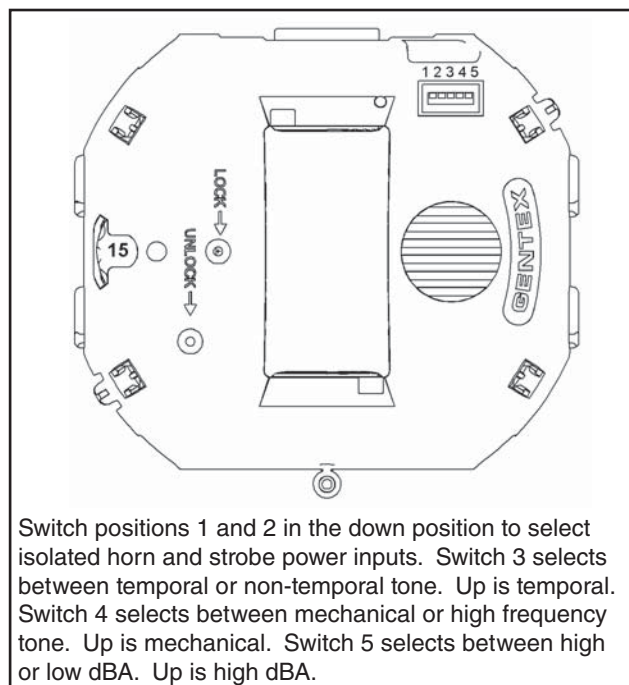
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Permit # 2020-1869054-CT  
Sheet 9 of 10



## Checkmate® Instant Voltage Verification



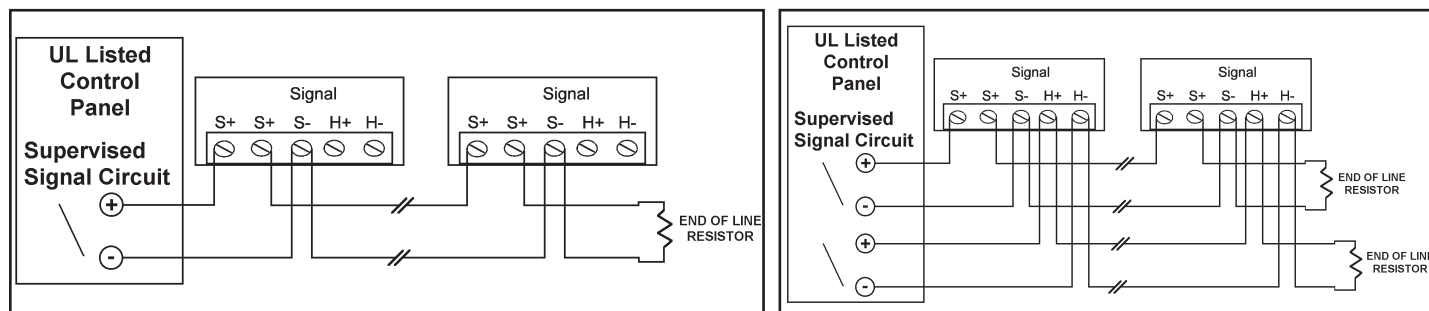
## Switch Locations



# GCS/GCC 24VDC S E R I E S

RSN: 1489088  
Permit # 2020-1869054-CT  
Sheet 10 of 10

## Conventional GC Series Wiring Diagrams



### NOTES:

- All strobes are designed to flash as specified with continuous applied voltage. Strobes should not be used on coded or pulsing signaling circuits. However, use of the Gentex AVSM control module or Gentex synchronization protocol is permitted to synchronize the strobe, horn and/or mute the horn. See Technical Bulletin 014 for additional information.
- **FOR SYNCHRONIZATION WIRING INFORMATION, REFERENCE AVSM CONTROL MODULE DATA SHEET (551-0031) AND/OR AVSM CONTROL MODULE MANUAL (550-0284) FOR SYNCHRONIZATION MODULE WIRING DIAGRAMS. AVSM CONTROL MODULE DATA SHEET AND MANUAL CAN BE OBTAINED AT <http://www.gentex.com> OR CALL GENTEX CORPORATION AT 1-800-436-8391.**

## Architect & Engineering Specifications

The visible and audible/visible signal shall be Gentex model GCS or GCC or approved equal and shall be listed by Underwriters Laboratories Inc. per ANSI/UL 1971 for the GCS and ANSI/UL 464 for the GCC. The notification appliance shall also be listed with the California State Fire Marshal (CSFM) and the Bureau of Standards and Appeals (NYC).

The notification appliance (combination audible/visible units and audible units only) shall produce a peak sound output of 90dBA or greater as measured at 24VDC in an anechoic chamber. The signaling appliance shall also have the capability to silence the audible signal while leaving the visible signal energized with the use of a single pair of power wires. Additionally, the user shall be able to select either continuous or temporal tone output with the temporal signal having the ability to be synchronized.

The audible/visible and visible signaling appliance shall also maintain a minimum flash rate of 1Hz or up to 2Hz regardless of power input voltage. The appliance shall have an operating current of 72mA or less at 24VDC for the 15 candela strobe circuit.

The appliance shall be polarized to allow for electrical supervision of the system wiring. The unit shall be provided with a mounting bracket with terminals with barriers for input/output wiring and be able to mount to a single gang or double gang box or double workbox with the use of an adapter plate. The unit shall have an input voltage range of 16-33 volts with either direct current or full wave rectified power.

The appliance shall be capable of test supervision without disconnecting wires, verify voltage without removing unit and be capable of mounting to a surface back box.

24 units per carton  
29 pounds per carton

# GENTEX CORPORATION

Fire Protection Products Group • [www.gentex.com](http://www.gentex.com)  
10985 Chicago Drive • Zeeland, Michigan 49464  
616.392.7195 • 1.800.436.8391 • 616.392.4219 Fax

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