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FireForce 8

by Honeywell

Description

The FireForce 8 (FF8) from Gamewell-FCI is a Notification Appliance Circuit (NAC) extender panel designed to extend the power capabilities of existing NACs and provide power (1.5 A) for other ancillary devices. The FF8 will connect to any brand of a UL-Listed Fire Alarm Control Panel (FACP) to provide Notification Appliance Circuit expansion.

Designed with advanced switch-mode power-supply technology, the FireForce 8 provides filtered and electronically-regulated power distributed to four (4) NACs. Each NAC is rated at 3.0 Amp. maximum, with a total output capacity of 8.0 Amp. The outputs may be configured as the following:

- Four (4), Class B (Style W, X, Y)
- Two (2), Class A (Style Z)
- Two (2), Class B and one Class A
- Four (4), Class A (Style Z) with the optional Class A adaptor installed

The FF8 includes an internal battery charger.

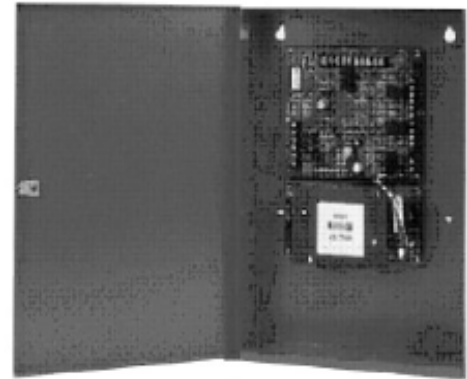
Gamewell-FCI's FF8 provides independent output circuit supervision. In the event of a NAC fault, the FF8 can be configured to notify the FACP. The FF8 has field-selectable, built-in strobe and horn sync protocols. Protocols support Faraday, Gentex, System Sensor, Amseco, and Cooper-Wheelock devices; or pass through a pre-generated sync protocol from a single synchronization source. This eliminates the need for additional individual sync modules. Independent horn silencing via sync protocol allows synchronized horns and strobes to operate on a single circuit.

One of the most challenging aspects of a retrofit application is locating the existing EOL resistor. In retrofit applications that have EOL values other than the 3.9K ohm EOL resistor normally used with the FF8, a single resistor matching the existing EOL can be used as a reference EOL for all outputs. This feature speeds installation and system check-out. The reference resistor must be within a range of 2K ohm to 25K ohm.

"FireForce 8" labeling is placed on the cabinet front, making the FF8 ideal for all retrofit applications.

For enhanced notification appliance circuit survivability, the FF8 can utilize its dual-activation inputs for redundant trip operation.

NAC Expander/Power Supply

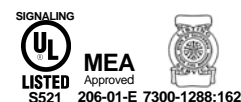


FireForce 8

Features

- Provides two fully-supervised input/control circuits
- Redundant activation option for survivability
- Multiple sync protocols, compatible with the following appliances: Cooper-Wheelock, Faraday, System Sensor, Amseco, and Gentex-as field-selectable options
- Four (4) configurable supervised NAC outputs
- 8.0 Amp., 24 VDC, fully regulated full-load output (power-limited)
- Output fault notification to FACP
- 1.5 A auxiliary power output
- Eight trouble and status LEDs
- Common trouble Form-C relay
- Isolated AC Fail Form-C relay, immediate or delayed six hours
- Ground fault detection
- 26 AH battery charger capability
- Selectable temporal coding
- Facilitates multiple NAC synchronization for large areas
- Optional multipack for up to four FF8s in a single lockable enclosure
- Optional Class A adaptor

An ISO 9000-2000 Company



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Engineer's Specifications

The Fire Alarm System shall be designed with remotely located Notification Appliance Circuit (NAC) Expander/Power Supplies for the support of notification appliances. The remote Power Supplies shall be fully supervised and shall provide 8.0 Amps. of notification appliance power and 1.5 Amps. of auxiliary power output. The NAC Extender Panel shall be able to select strobe synchronization protocol via an internal dip switch. There shall be five selectable protocols available. The NAC Extender Panel shall synchronize all outputs simultaneously. The NAC Extender Panel shall be able to use existing notification appliance circuit's end-of-line resistors in the range of 2K – 25K ohms for retrofit applications. The internal battery charging circuit shall charge up to 26 AH batteries. The NAC Expander/Power Supply shall be a Gamewell-FCI FireForce 8.

Options

31081

SCE-95 mounting plate provides a means to install two (2) SCE-95 modules. The addition of SCE-95s provides a means to run on FF8 outputs via a panel command on an SLC. The 31081 mounts over the main PCB and is hinged for access to FF8 terminal.

FF8-MP

Multipack FF8 option provides a means to place up to four (4) FF8s or 31085s (XP95 device mounting plates) in a single lockable enclosure. UL approved.

31076

Class A adaptor converts the four (4) Class B outputs to four (4) Class A outputs.

Specifications

Primary Input Power:	120 VAC, 60 Hz, 3.0 A or 220 V, 1.5 A; jumper selectable
Secondary Power:	24-volt operation: two 7 – 24 AH batteries
Battery Charging Capacity:	Up to 26 AH batteries
Battery Space:	Up to two 12 AH batteries maximum inside the FF8 cabinet. Larger batteries require a separate battery cabinet
Total Output Power:	8.0 A maximum
Standby Current:	0.030 A
Auxiliary Power Output:	0.15 A under all conditions 1.5 A, if load is removed during operation (external relay or AC Fail relay use required).
NAC Output Ratings:	24 VDC fully regulated, 3.0 A maximum per circuit (8.0 A total)
End-of-Line Resistor Range:	2K to 25K, 1/2 watt
Common Trouble Relay, AC Fail Relay:	2.0 A/28 VDC or 120 VAC

Specifications (Continued)

Input Control Circuit:	16 – 30 VDC @ 5 mA minimum
Temperature Rating:	32°F to 120°F (0°C to 49°C)
Relative Humidity:	10 - 93%, non-condensing
Dimensions:	FF8 Cabinet: 18.0" H x 12.5" W x 4.5" D (45.72 H x 31.75 W x 11.43 D cm)
	FF8-MP Cabinet: 37.2" H x 24.0" W x 6.0" D (94.49 H x 60.96 W x 15.24 D cm)

Field Selectable NAC Signaling	
INPUT	OUTPUT (Follows Input)
Steady	Temporal
Steady	Steady - SYNC
Steady	Steady with Noise Eliminated
Sync	Sync

Ordering Information

Model	Description
FF8	24 VDC, 8.0 Amp., fire alarm NAC expander/ power supply with integral battery charger
FF8-MP	Multipack cabinet with one FF8 and space for up to three additional FF8-CMs or 31085s (See Options Section).
FF8-CM	Chassis assembly version of FF8, for mounting in FF8-MP spaces
31076	Class A adaptor, converts signal circuits to Class A wiring (See Options Section).
31081	Mounting plate for placing up to two SCE-95 modules into the FF8 (FF8 and FF8-MP compatible, See Options Section).
31085	Mounting plate for placing XP95 devices into the FF8-MP; includes standoffs for eight devices
BAT-1270	Battery, 12 VDC, 7 AH (two required for 24 V operation)
BAT-12120	Battery, 12 VDC, 12 AH (two required for 24 V operation)

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