

FireForce 8 (FF8) Notification Appliance Circuit Power Supply

Description

The FireForce 8 (FF8) is a Notification Appliance Circuit (NAC) extender panel designed to extend the power capabilities of existing NACs and provide power for other ancillary devices. The FF8 will connect to any brand of 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 NACs. Each NAC is rated at 3.0 A maximum, auxiliary power rated 1.5 A, with a total output capacity of 8.0 A. The outputs may be configured as: four Class B (Style W, X, Y); or two Class A (Style Z); or two Class B and one Class A; or four Class A (Style Z) with the optional Class A adaptor installed. The FF8 includes an internal battery charger.

The FF8 provides independent output circuit supervision; so in the event of a NAC fault, the FF8 can notify the FACP. The FF8 has field-selectable, built-in strobe and horn sync protocols that support Faraday, Gentex, System Sensor, Amseco, and Wheelock devices; and a pass-through feature that passes a pre-generated sync protocol from another synchronization source. Independent horn silencing via sync protocol allows synchronized horns and strobes to operate on a single circuit. For enhanced notification appliance circuit survivability, the FF8 can utilize its dual-activation inputs for redundant trip operation.

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 checkout. The reference resistor must be within a range of 2K to 25K ohms.

Benefits

- Extends and supplies power for additional fire alarm devices.
- Instantaneous switchover to standby battery (if equipped) when AC fails, maintaining power to all attached devices without intervention.
- Reference resistor feature eliminates need to locate EOL in retrofit applications.
- Strobe signal "passes through" allowing syncing of large systems.
- Redundant trip functionality that allows multiple activation inputs.

Features

- Provides two fully-supervised input/control circuits.
- Redundant activation option for survivability.
- Pass-through and generated sync protocols, compatible with the following appliances: Wheelock, Faraday, System Sensor, Amseco, and Gentex — as field-selectable options.
- Four configurable supervised NAC outputs.
- 8.0 A, 24 VDC, fully regulated full-load output (power limited).
- Output fault notification to FACP.



- 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 (HPP31076).

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 – 26 AH batteries.
- Battery charging capacity: up to 26 AH batteries; 12 AH batteries to fit in cabinet.
- Battery space: up to two 12 AH batteries maximum inside FF8 cabinet. Larger batteries require a separate battery cabinet.
- Standby current: 0.040 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.
- 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 (cm: 45.72 H x 31.75 W x 11.43 D). *FF8-MP cabinet*: 37.2" H x 24.0" W x 6.0" D (cm: 94.49 H x 60.96 W x 15.24 D).

Listings

Listings and approvals below apply to the basic FireForce 8 panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: file S6677
- MEA: 206-01-E Vol II
- CSFM: 7300-1637:100
- FM Approved

Ordering Information

FF8: 24 VDC, 8.0 A, 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 in a single lockable enclosure. UL approved.

FF8-CM: Chassis assembly version of FF8, for mounting in FF8-MP spaces.

HPP31076: Class A adaptor, converts signal circuits to Class A wiring.

31081: SCE-95 mounting plate provides a means to install two SCE-95 modules. The addition of SCE-95s provides a means to run on FF8 outputs via a panel command on an SLC. Mounts over the main PCB, hinged for access to FF8 terminal.

31085: Mounting plate for 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).

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.
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DH-1010:B
May 2010
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