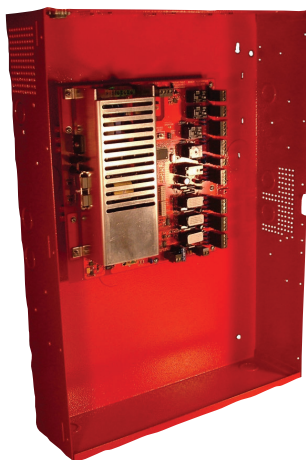



BOSCH

Invented for life

FPP-RNAC-8A-4C Remote Notification Appliance Circuit (RNAC) Power Supply



- ▶ 8 A of power
- ▶ Fully supervised outputs
- ▶ Configurable for NAC output or constant auxiliary power
- ▶ Regulated 24 VDC output (nominal) with over-current protection
- ▶ Built-in NAC patterns
- ▶ Four Class B (Style Y) or Class A (Style Z) circuits
- ▶ Form C trouble relay
- ▶ Status indicator on control panel when connected to the option bus.
- ▶ Ground fault indication
- ▶ Charger control monitor

Use the FPP-RNAC-8A-4C power supply to add four additional notification appliance circuits to a fire alarm control panel (when connected via the option bus), or as a NAC power supply for fire-protective signaling systems (when connected directly to the NAC output). The additional notification appliance circuits can be NFPA 72, Class B (Style Y) or Class A (Style Z).

This regulated power supply provides up to 8 A of power that is used to operate both continuous and intermittent loads. This 8 A of power can be distributed through the four output circuits and auxiliary power circuit. The FPP-RNAC-8A-4C power supply is UL Listed for use in commercial fire alarm applications.

Functions

Compatible Control Panel Connections

The FPP-RNAC-8A-4C power supply is compatible with any UL Listed control panel that uses reverse polarity supervised notification outputs with 12 VDC or 24 VDC regulated outputs. It is also compatible with the following Bosch Control Panels:

- D7022 Two-zone Conventional FACP
- D8024 and D10024A Analog FACP

- For the D7022 conventional panel and the D8024 and D10024A analog panels, the FPP-RNAC-8A-4C connects through a NAC circuit. No option bus connection is necessary.
- D7024 Four-zone Addressable FACP
- DS9400i Four-zone FACP
- DS9400M AddressiFire FACP
- Connect up to two FPP-RNAC-8A-4C power supplies to a D7024, DS9400i, or DS9400M Control Panel. The control panel can individually control each of the four NAC outputs for each FPP-RNAC-8A-4C power supply. Only the four NAC outputs of a single FPP-RNAC-8A-4C will be synchronized.
- FPD-7024 or FPA-1000-UL FACP
- Connect up to four FPP-RNAC-8A-4C power supplies to an FPD-7024 or an FPA-1000-UL control panel. Each RNAC's four NAC outputs will be synchronized and can be individually controlled for a total of 16 synchronized circuits.

NAC Output Patterns

The NAC circuits can be set to produce the following output patterns:

- Steady
- Temporal Code 3
- Pulsed
- California March
- Wheelock Synch
- Gentex Synch
- System Sensor Synch

Status Displays

There are eight local status display LEDs on the FPP-RNAC-8A-4C's printed circuit board that show the following conditions:

- AC OK
- System Trouble
- Ground Fault
- Input Active
- Trouble Output 1, 2, 3, and 4

DIP Switch Settings

If connected to the fire alarm control panel's option bus, the FPP-RNAC-8A-4C needs its own option bus address. Set this address through the DIP switches.

Set the DIP switches to choose:

- NAC or power supply output
- NAC Input Variable option
- AC Delay Time

Certifications and Approvals

Region	Certification	
USA	UL	UOXX: Control Unit Accessories, System (ANSI/UL 864, 9th edition) and UTRZ: Power-supply Units (UL 1481)
	FM	
	CSFM	7300-1615:228
	FDNY-CoA	#6024

Installation/Configuration Notes

Compatible Products

The following products are compatible with the FPP-RNAC-8A-4C RNAC Power Supply:

Category	Product ID	Product Description
Batteries	D126	12 V, 7 Ah battery
	D1218*	12 V, 18 Ah battery
	D1224**	12 V, 24 Ah battery
	D1238**	12 V, 38 Ah battery
*Up to two 18 Ah batteries fit in the enclosure **Requires BATB-40 Battery Box		
Magnetic Door Holders	D370B	Brass-Plated Wall-Mount
	D370C	Chrome-Plated Wall-Mount
	D371B	Brass-Plated Floor-Mount
	D371C	Chrome-Plated Floor-Mount

Category	Product ID	Product Description
Four-wire Smoke Detectors		Refer to <i>Technogram</i> (P/N: F01U010790)
NAC Devices		Refer to <i>Technogram</i> (P/N: F01U010791)

Wiring

All wiring is connected to the power supply board by lift-gate terminals that can accept up to 12 AWG (2.3 mm) wire.

Parts Included

Quant.	Component
1	FPP-RNAC-8A-4C board
1	AE4 Large Enclosure (red), vented
4	2.21 kΩ end-of-line (EOL) resistors (P/N: F01U034504) <i>For retrofitting applications, allowable EOL values are in the range of 1 kΩ to 20 kΩ</i>
1	Hardware pack

Technical Specifications

Environmental Considerations

Temperature (operating): +32°F to +120°F (0°C to +49°C)

Inputs (NAC)

Response Time (input to output): 10 ms maximum

Mechanical Properties

Color:	Red
Dimensions (HxWxD) without door:	20.4 in. x 14.8 in. x 4.1 in. (52 cm x 38 cm x 10.4 cm)
Material:	cold-rolled steel Base: 18 gauge (1.2 mm) Cover: 19 gauge (1.1 mm)

Outputs (auxiliary)

Current (output):	850 mA maximum
Voltage (output):	24 VDC (regulated)

Outputs (NAC)

Output per circuit:	2.5 A maximum
Output (total):	8 A (all NAC and auxiliary outputs)
Voltage (output):	24 VDC (regulated)
Voltage (standby):	-24 VDC (regulated)

Outputs (trouble and ac trouble relays)

Contact Type:	Form C
Rating (contact):	1.5 A at 32 VDC

Power Requirements

Current (input):	4.5 A maximum (RMS)
Power (primary input):	120 VAC, 60 Hz or 220 VAC, 50 Hz
Voltage (battery):	24 VDC nominal

Ordering Information

FPP-RNAC-8A-4C Remote Notification Appliance Circuit (RNAC) Power Supply	FPP-RNAC-8A-4C
Adds four additional notification appliance circuits to a fire alarm control panel	

Accessories

D102 Replacement Key	D102
Replacement key (#1358) for the D101 lock.	

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