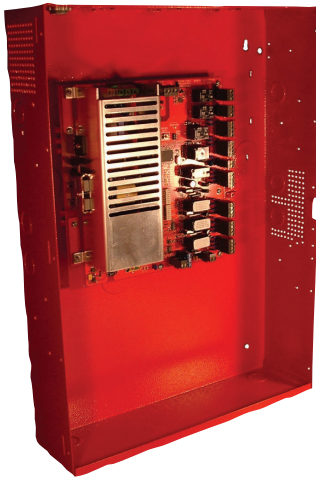


FPP-RNAC-8A-4C Remote Notification Appliance Circuit (RNAC) Power Supply

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Invented for life



- ▶ 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

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 FACPs

- 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 power supply. Only the four NAC outputs of a single power supply will be synchronized.
- FPD-7024 or FPA-1000 Analog Addressable Fire Panels
 - Connect up to four FPP-RNAC-8A-4C power supplies to an FPD-7024 or an FPA-1000 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

D371C Chrome-Plated Floor-Mount

Four-wire Smoke Detectors Refer to *Technogram* (P/N: F01U010790)

NAC Devices Refer to *Technogram* (P/N: F01U010791)

Status Displays

There are eight local status display LEDs on the power supply'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 power supply 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

Wiring

All wiring is connected to the power supply board by lift-gate terminals that can accept up to 12 AWG (ISO 4 mm²) wire.

Parts included

Quant.	Component
1	FPP-RNAC-8A-4C board
1	AE4 Large Enclosure (red), vented
1	Lock set with two #1358 (D102) keys (P/N: F01U083084)
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 (NAC when configured as power supply)

Compatibility range: 19.6 VDC to 27.5 VDC
Current (output): 1.3 A maximum

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	FPP-RNAC-8A-4C
	CSFM	see our website
	FDNY-CoA	#6101
	FDNY-CoA	#6173

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
	<i>*Up to two 18 Ah batteries fit in the enclosure **Requires BATB-40 Battery Box</i>	
Magnetic Door Holders	D370B	Brass-Plated Wall-Mount
	D370C	Chrome-Plated Wall-Mount
	D371B	Brass-Plated Floor-Mount

Voltage (output):	24 VDC nominal
Voltage (ripple):	250 mVp-p

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**

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Order number **FPP-RNAC-8A-4C**

Accessories**D102 Replacement Key**

Replacement key (#1358) for LOCK-1358 and the D101 lock.

Order number **D102**

Represented by:**Americas:**

Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:

Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:

Bosch (Shanghai) Security Systems Ltd.
201 Building, No. 333 Fuquan Road
North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

America Latina:

Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com