Power supply, RNAC

FPP-RNAC-8A-4C

en Release notes

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1 Introduction

The FPP-RNAC-8A-4C allows four Remote Notification Appliance Circuits (RNACs) to be controlled and monitored by a Bosch Security Systems, Inc. (Bosch) fire alarm control panel (FACP), using the Bosch option bus. It can also be controlled by a polarity reversal output from a conventional FACP. The expander is supervised by the FACP to which it is connected. The FPP-RNAC-8A-4C consists of the controller board, backup battery, and enclosure.

1.1 Features

- 8 A of power, configurable as a NAC or power supply
- Four 24 VDC regulated outputs that can be wired Class A or Class B
- Two inputs can be wired Class A or Class B
- Four RNACs that can be synchronized through the option bus of the Bosch FPA-1000 family or FPD-7024 FACP for a total of 16 circuits
- DIP switch configurable
- Flashable software upgrades for all your FPP-RNAC-8A-4C's by ordering only one FMX-DONGLE-RNAC Software update dongle
- Built-in synchronization protocols for Wheelock, System Sensor, and Gentex NACs
- Removable terminal strips for easy installation and troubleshooting
- Programmable EOL reference for retrofitting installs
- 120 VAC , 60 Hz, 4.2 A maximum or 240 VAC, 50 Hz, 2.5 A maximum input power
- Auxiliary output of 19.7 to 27.5 VDC, 0.75 A maximum @ 24 VDC

1.2 Trademarks

All hardware/software product names used in this document are likely to be registered trademarks and must be treated accordingly.

2 Release notes for version 1.10

2.1 New features

New or updated documentation is available in the documents section of the FPP-RNAC-8A-4C product page on the Bosch Security and Safety Systems website (www.boschsecurity.com). The new document is an installation guide for the FMX-DONGLE-RNAC. The updated documents are the datasheet and the updated *NAC Compatibility List* that adds new System Sensor L-series NACs.

2.2 Issues fixed

Improved the FPP-RNAC-8A-4C's Wheelock and System Sensor synchronization timing when connected to the option bus.

2.3 Known Issues

When the FPP-RNAC-8A-4C is used as a power supply for NACs, an overcurrent is triggered if the inrush current exceeds 25 A at <40 ms. The information has been added to the FPP-RNAC-8A-4C Datasheet, but not yet to the FPP-RNAC-8A-4C *Operation and Installation Guide*. The information will be added when the *Operation and Installation Guide* is next revised.

3 Release notes for version 1.09

3.1 Issues fixed

The RNAC reports the following faults to the FACP as a Battery Fault:

1. Program Operational Trouble
2. Power Supply Over Voltage
3. Problem with the charger circuit (blown fuse)
4. Battery Low or Missing
5. Auxiliary Over Current
6. Power Supply Under Voltage

In the future, the FACP software will be updated to a generic Trouble Fault when the above troubles occur.

4 Release notes for version 1.08

Version 1.08 was used for engineering evaluation of the FPP-RNAC-8A-4C, and was never released.

5 Release notes for version 1.07

5.1 Issues fixed

- NAC Outputs 1 through 4 might not indicate an open trouble at the control panel.
- NAC Output 4 might not deactivate in the event of an over-current condition.
- The Trouble relay might activate and deactivate repeatedly.

6 Release notes for version 1.06

Version 1.06 was the original release of the FPP-RNAC-8A-4C.

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