OVERVIEW

FPO power supply and N24 NAC signaling board features

For more information about the FPO power supply and N24 NAC board see the FPO or N24 User Manuals available on the LifeSafety Power website at: www.lifesafetypower.com/tools/installation-manuals

FPO Power Supply Features

- 24V output: @ 4, 6, 8 10 amps
- Multiple outputs: Continuous and Resettable DC
- Fire Alarm Interface (FAI)
- Direct lock control capability
- Separate battery charge circuit
- Microprocessor controlled battery charging
  - Charge 80Ah in under 48 hours
- Automotive style fuses
- Comprehensive fault monitoring / reporting
- Programmable AC and System fault delays
- AC connector for testing without FACP in alarm
- Battery presence / earth ground (options)
- 5A NAC contact relays on 3A circuit
- Data sheet ratings specified for full power and continuous use
- Fault conditions detected
  - Loss of AC / AC brownout
  - Output voltage hi/low
  - Battery voltage hi/low
  - Abnormal operation
  - Battery presence (optional)
  - Earth ground (optional)
  - Internal cabinet temperature
  - Accessory board faults

System Enhancements

- High efficiency power circuit design
  - Lower cabinet BTUs
  - Longer component life
  - Less primary current draw
- NAC test switches
  - Live test NAC circuits without FACP going into alarm
- Battery presence / earth ground (options)
- 5A NAC contact relays on 3A circuit
- Data sheet ratings specified for full power and continuous use
- Fault conditions detected
  - Loss of AC / AC brownout
  - Output voltage hi/low
  - Battery voltage hi/low
  - Abnormal operation
  - Battery presence (optional)
  - Earth ground (optional)
  - Internal cabinet temperature
  - Accessory board faults

N24 NAC Board Features

- 2 Class A or B inputs
- 2 Class A or 4 Class B outputs
- Class 2 power limited ratings
- Synchronous / non-synchronous operation
- Temporal coding
- Follower output
- Protocols supported
  - Cooper / Wheelock
  - Amseco-Potter, Gentex
  - Edwards (as direct DC or with sync module)
- Network connection via NL1 module
- Listings
  - UL686/1481 ULC SS27
  - CSA C22.2#07:1 CSA C22.3450950
  - FCC part 15, Subpart B
  - Ontario Province Registered
  - CSFM Approved

Mechanical Refinements

- Multiple cabinet sizes
  - 12 x 14 or 16 x 20 for additional NAC’s
  - 4.5” depth for 12Ah batteries
  - Pre-wired, inter-module connections
- Lock and tamper switch option
  - Tamper switch can be connected through optional NL1 module for email notification of door breach
- Network connection via NL1 module for network monitoring / reporting
- Test switches
  - Allows live testing of NAC circuits without FACP being in alarm
- Easy to daisy chain additional boards
- 5A contact on 3A circuit
- Easy to find and service
- Longlife Capacitors
  - Double industry standard rating
- Improved Short Circuit Protection
- Automotive Fuses
  - Easy to delay chain additional boards
- Microprocessor
  - For housekeeping and control
- FlexIO Connectors
  - Transmit fault and FAI to or from the NAC board
- Output field wiring
  - 2A, 4B at 3A max per circuit
  - Ultra low voltage hi/low
  - Battery presence (optional)
  - Earth ground (optional)
  - Internal cabinet temperature
  - Accessory board faults
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