PDB-4F/C & PDB-8F/C Power Distribution Boards

ASSA ABLOY

Installation Instructions and Operating Manual

The global leader in door opening solutions

This Manual applies to models: PDB-4F1, PDB-4F2, PDB-4C1, PDB-4C2, PDB-8F1, PDB-8F2, PDB-8C1, PDB-8C2

Features:

- Converts a single DC Input into 4 or 8 Class 2 rated outputs for "C" denoted models. Class 1 wiring is required for "F" denoted models
- 9-28 VDC Operation
- Reverse polarity protected
- Available with glass fuses or PTC protection
- Output LED's indicate condition
- Form C Contacts Indicates Trigger Status
- MagnaCare Lifetime Warranty
- UL Listed Sub Assembly for Access Control and Burglar Alarm Systems



Description:

- Converts a single 9-28VDC Input to 4 or 8 protected class 2 rated output for PTC protected models.
- Main Power Green/Red LED Indicates AC, DC or Reversed DC Input on PDB-8
- Each output has a green status LED indictor
- Current Draw is 6ma max per LED
- Main Fuse / Power Pull is standard ATO Automotive size on PDB-8 Rated 20A
- Unit shall be installed in accordance with the National Electrical Code, ANSI/NFPA 70; Canadian Electrical Code, or any other applicable codes.
- PDB-4F, PDB-4C, PDB-8F, & PDB-8C are UL listed Sub Assemblies As configured in UL listed products suitable for Access Control and Burglar alarm systems
- All Input Terminal blocks and output terminal blocks on the PDB-8F, 8C module are rated 25A with a wire range of 10 – 18AWG
- Output Terminal blocks on the PDB-4F,4C are rated 10A with wire range 12-22AWG
- Note: Proper wire size should be selected based on output load
- Size: PDB 4F 3.75"H x 2.22"W x 1"D Mounting: 3.41"H x 1.87"W
- Size: PDB-8F 3.87"H x 4.84"W x 1"D Mounting: 3.41"H x 4.49"W
- Main Fuse Ratings 10A, 32V for 1A models/ 20A, 32V for 2A models
- **Caution:** for continued protection against risk of fire, replace only with fuse of the same type and having the same electrical ratings.
- **Note:** All distribution boards shall be powered by either a UL 294 or 603 or ULC S318 or ULC S533 power supply with a class 2 output or Class 1 wiring must be employed.

- **PDB-8F2 / PDB-8C2 Ratings:**
  - Input 9-28VDC (Nominal 12-24VDC)
  - Current draw of PCB 55mA
  - Rated output: 8.4-28VDC, 2 Amps max per port, 16 Amps total combined Load all outputs
  - Littelfuse part number 0312002.MXP Rated 2A,250V
- **PDB-8F1 / PDB-8C1 Ratings:**
  - 9-28VDC (Nominal 12-24VDC)
  - Current draw of PCB 55mA
  - Rated output: 8.4-28VDC, 1 Amps max per port, 8 Amps total combined Load all outputs
  - Littelfuse part number 0312002.MXP Rated 2A,250V
- **PDB-4F2 / PDB-4C2 Ratings:**
  - 9-28VDC (Nominal 12-24VDC)
  - Current draw of PCB 24mA
  - Rated output: 8.7-28VDC, 2 Amps max per port 8 Amps total combined Load all outputs
- **PDB-4F1 / PDB-4C1 Ratings:**
  - 9-28VDC (Nominal 12-24VDC)
  - Current draw of PCB 24mA
  - Rated output: 8.7-28VDC, 1 Amps max per port 4 Amps total combined Load all outputs.

Certifications

- UL 294 Access Control System Unit
  - Line Security Level I
  - Endurance Test Level IV
  - Standby Power Level I
  - Attack Test Level I
- UL 603 Power Supplies for Use with Burglar-Alarm Systems
- ULC S318 Power supplies for Burglar Alarm Systems
- ULC S533 Standard for Egress Door Securing and Releasing Devices

500-33065_2

ELECTRONIC SECURITY HARDWARE
HES | Securitron
techsupport.esh@assaabloy.com | assaabloyesh.com
800.626.7590 | 10027 S. 51st Street Phoenix, AZ 85044 USA

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