








DSX-1040PDP

Power Distribution Panel

- 12VDC / 8A Power for Controllers
- Battery Backup for Controllers
- Fused Power for Locks 12VDC-10A / 24VDC-5.5A
- Optional Battery Backup for Locks
- UL 294     
- AC Loss and Low Battery Supervisory Outputs
- All Outputs - Class II, Power Limited
- Lock Power Fire Override Input & Output



General Information

The DSX-1040PDP Power Distribution Panel is the supervised power plant for the DSX-1048PKG Intelligent Controller. The DSX-1040PDP houses the panel and lock power supplies, and backup batteries. The DSX-1040PDP is comprised of a DSX-1040PE enclosure, an AS-150 15VDC power supply for the controllers, an AS-150-[15] or [27] for either 12VDC or 24VDC locks, and a DSX-1040PDM Power Distribution Module. The DSX-1040PDP carries a Limited 2 Year Warranty.

Power Architecture

The DSX-1040PDP contains an AS-150 Power Supply that converts 115VAC to 15VDC for Controller Power. Also present is an AS-150 15/27 Power Supply which converts 115VAC to either 12 or 24VDC for Lock Power. Both Power Supplies feed power to the DSX1040PDM Power Distribution Module. The DSX-1040PDM provides fused 12VDC/8A power to the DSX-1040CDM located in the DSX-1048 enclosure. The DSX-1040CDM redistributes the power through individually fused outputs to each Controller in the DSX-1048. The Controllers have 12VDC/1A fused power outputs for Card Readers and Keypads.

Power Distribution Module

The DSX-1040PDM performs several critical functions. First, it takes the 15VDC power from the AS-150 and provides two 12VDC 4 amp, Class II, Power Limited, Fused Outputs to power the DSX-1040CDM which distributes the power to the DSX-1042 Controllers in the DSX-1048PKG. It provides a 12VDC Battery Charging Circuit to charge backup batteries for the Controllers. It also provides a charging circuit for the optional batteries used to backup the 12 or 24 volt lock power from the AS-150 power supply. The Power Distribution Module has outputs to signal Loss of AC and Low Battery. The module also has a

Battery Test Input and Load Shed capabilities. The DSX-1040PDM routes Lock Power through individual fuses for each of the 8 outputs. All Outputs are Class II, Power Limited.

Inputs

The DSX-1040PDM has a Battery Test Input. This Input when activated shuts off the charging circuit and load tests the battery for 1 minute. This Input can be tied to a spare Output in the DSX-1048PKG Controller and programmed by Time Zone to occur when desired. The module also has connection points for a Lock Power Fire Override Relay to break Lock Power to all 8 Outputs.

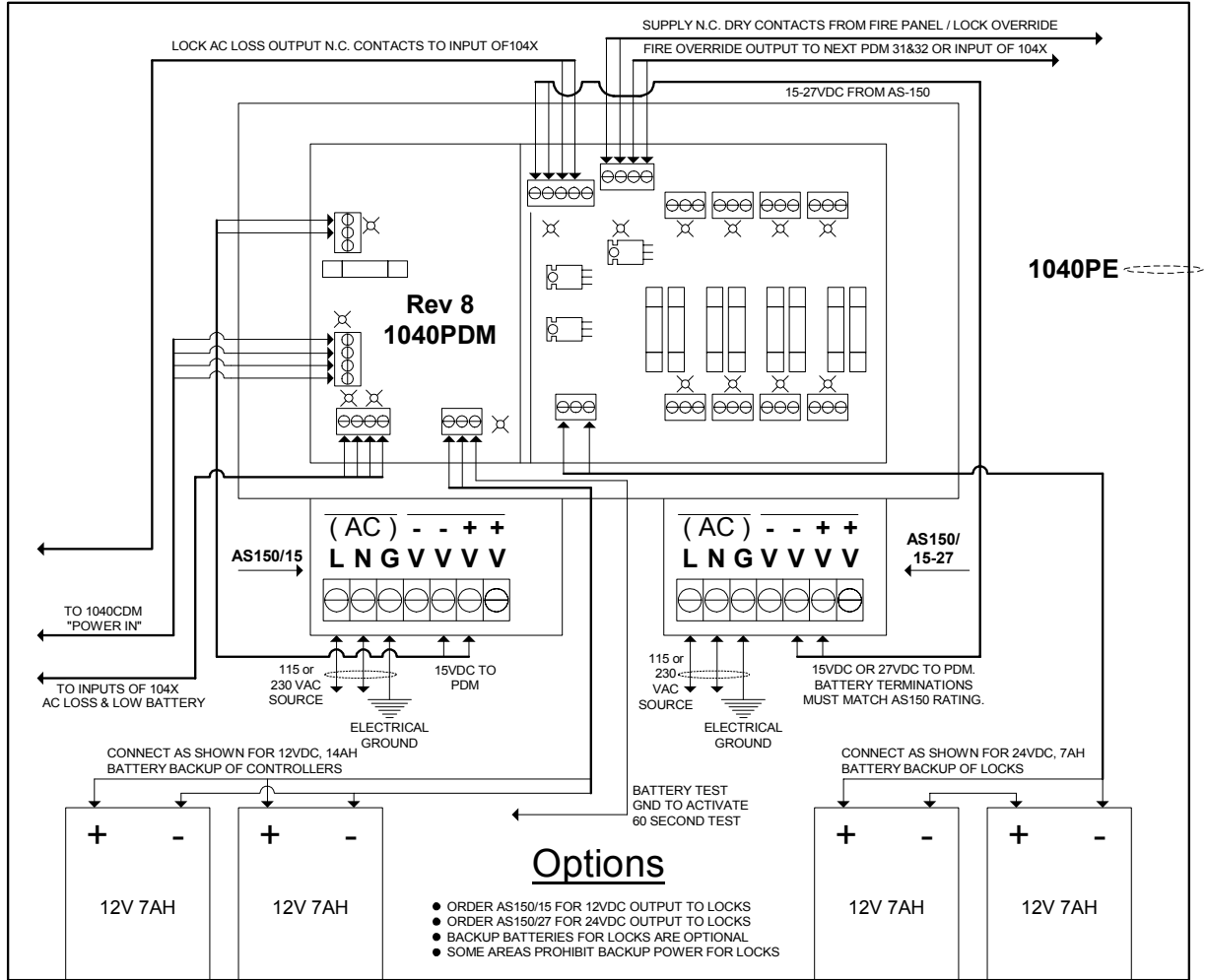
Outputs

The DSX-1040PDM Power Distribution Module has 3 normally closed Relay Outputs, two to signal Loss of AC (one for panel power and one for lock power) and one to signal Low Battery. These Outputs can be connected to three spare Inputs in the DSX-1048PKG. The DSX-1040PDM routes Lock Power through individual fuses for each of the 8 Outputs with connection points for the lock wiring and for the Output relays located in the DSX-1048. There is also an output from the Lock Power Fire Override that can be connected to an input in the 1048 or can be used to connect to the Fire Override Input on the next 1048 and 1040PDP.

Diagnostic, Supervisory and Status LEDs

The DSX-1040PDP has 17 diagnostic LEDs for power and blown fuse indication. There are Power On LEDs at each of the AS-150 power supplies. There are Power On LEDs for each of the two power inputs to the DSX-1040PDM. The DSX-1040PDM has LEDs for Low Battery and Battery Test, for AC Loss, and Fire Override. The DSX-1040PDM also has 1 LED for each of the eight fused Outputs for Lock Power.

DSX-1040PDP Basic Architecture



Size

DSX-1040PE Cabinet	15.5" W x 14" H x 6" D
DSX-1040PDM	8" W x 4" H x 1.5" D
AS-150-15/27	4.3" W x 7.8" H x 1.9" D

Weight

DSX- 1040PE Cabinet	11.0 lb
DSX-1040PDM	1.30 lb
AS-150 15/27	1.50 lb

Finish

Black Powder Coat with White Silkscreen

Conduit Knockouts

Concentric knockouts in Top, Bottom, and Sides.
Knockouts accommodate 1/2, 3/4, 1, 1 3/4 inch conduit.

Supervisory Outputs

Low Battery	N.C. Relay
Loss of AC	2 - N.C. Relays
Fire Override	N.C. Relay

Power Input Requirements

DSX-1040PDM	15VDC/8A for Panels 15VDC/10A or 27VDC/5.5A for Locks
AS-150	120VAC (88-132/176-264VAC) switch selectable

Power Outputs

DSX-1040PDM	10-15VDC, 12VDC nominal / 2 - 4A for Panels 8 - 12VDC@10A or 24VDC@5.5A for Locks 12VDC/3A Panel Battery Charging Circuit 12/24VDC/3A Lock Battery Charging Circuit
AS-150/15	15VDC 10.0A 150 Watts 511.8 BTUs
AS-150/27	27VDC 5.5A 150 Watts 511.8 BTUs

*All 1040PDM Outputs are Class II, Power Limited

Inputs

Battery Test	Active Low from spare Output on DSX-1048
Fire Override	Connection point for N.C. relay contact to control PDM relay that enables all Lock Power

Warranty

Limited	2 Years
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