

OVERVIEW

A common application in the security industry is providing continuous DC for auxiliary equipment such as REX detectors and readers and also resettable DC for fire override of egress locks in the same system.

Traditionally, a power supply, distribution module, and a remote activated relay module have been used for this purpose, which, although a working solution, is not economical in cost, space, or labor.

The FlexPower system utilizes an innovative dual buss structure that runs through the D8 auxiliary power module to make two voltages available on a per zone, user selectable basis. (Fig. 1) In a single voltage system, this allows Buss 2 to provide FAI-switched voltage to a D8 module.

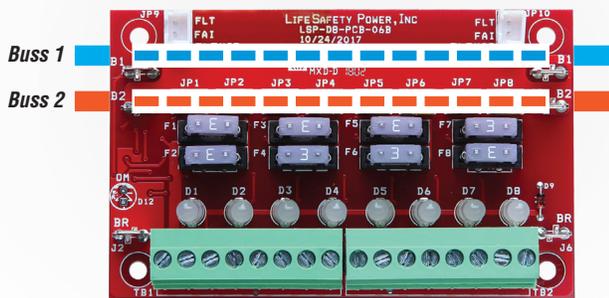


Figure 1

SYSTEM BENEFITS

- Devices requiring continuous or resettable power may be mixed on the same power distribution or lock control module
- REX devices may be paired up with their respective locks for system clarity
- Door holder control may be easily added to a fire or access control system without special modules or custom wiring
- Multiple D8 auxiliary power modules can be daisy-chained together to increase the number of outputs in increments of 8

APPLICATION IN A SINGLE VOLTAGE SYSTEM

Every FlexPower DC power supply has a voltage select switch for either 12 or 24V DC output. Once a selection is made, the FPO has two independent outputs at that voltage setting:

- Continuous DC out (DC1)
- Resettable DC out (DC2)

When a D8 auxiliary distribution module is added to the system, the continuous DC output from the power supply can be connected to Buss 1 of the D8 module and the resettable DC output to Buss 2.

In this single voltage system, the D8 module now allows each individual output to be selected for either continuous or resettable DC. (Fig. 3)

For D8 programming in dual voltage systems see Application Note AN 18.

D8 ZONE PROGRAMMING OPTIONS

By using a simple jumper arrangement as an SPDT switch to connect an output to either buss, individual D8 outputs may be selected to operate as either continuous or resettable with the FPO power supply providing the trigger interface. (Fig. 2)

See the FPO manual for more information on DC2 operation.

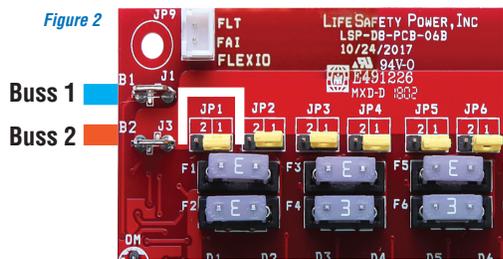
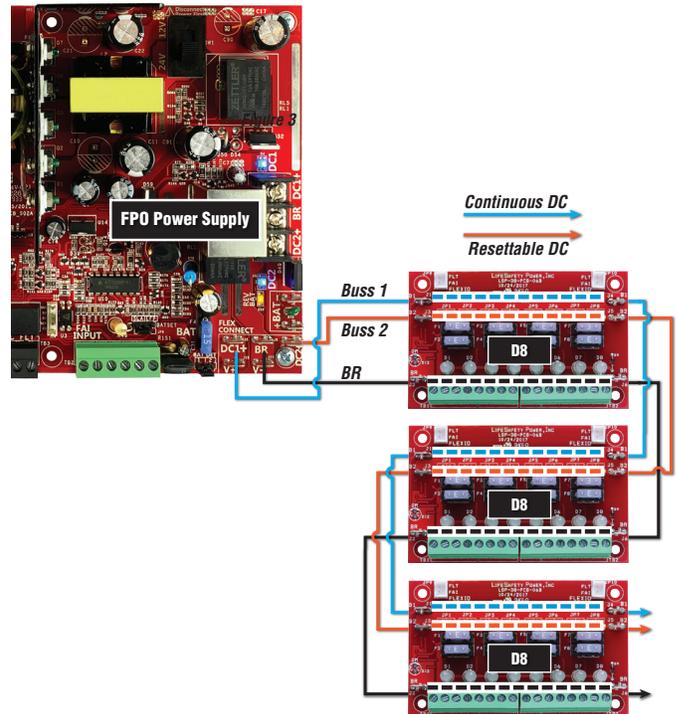
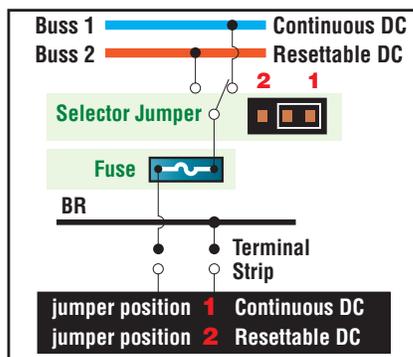
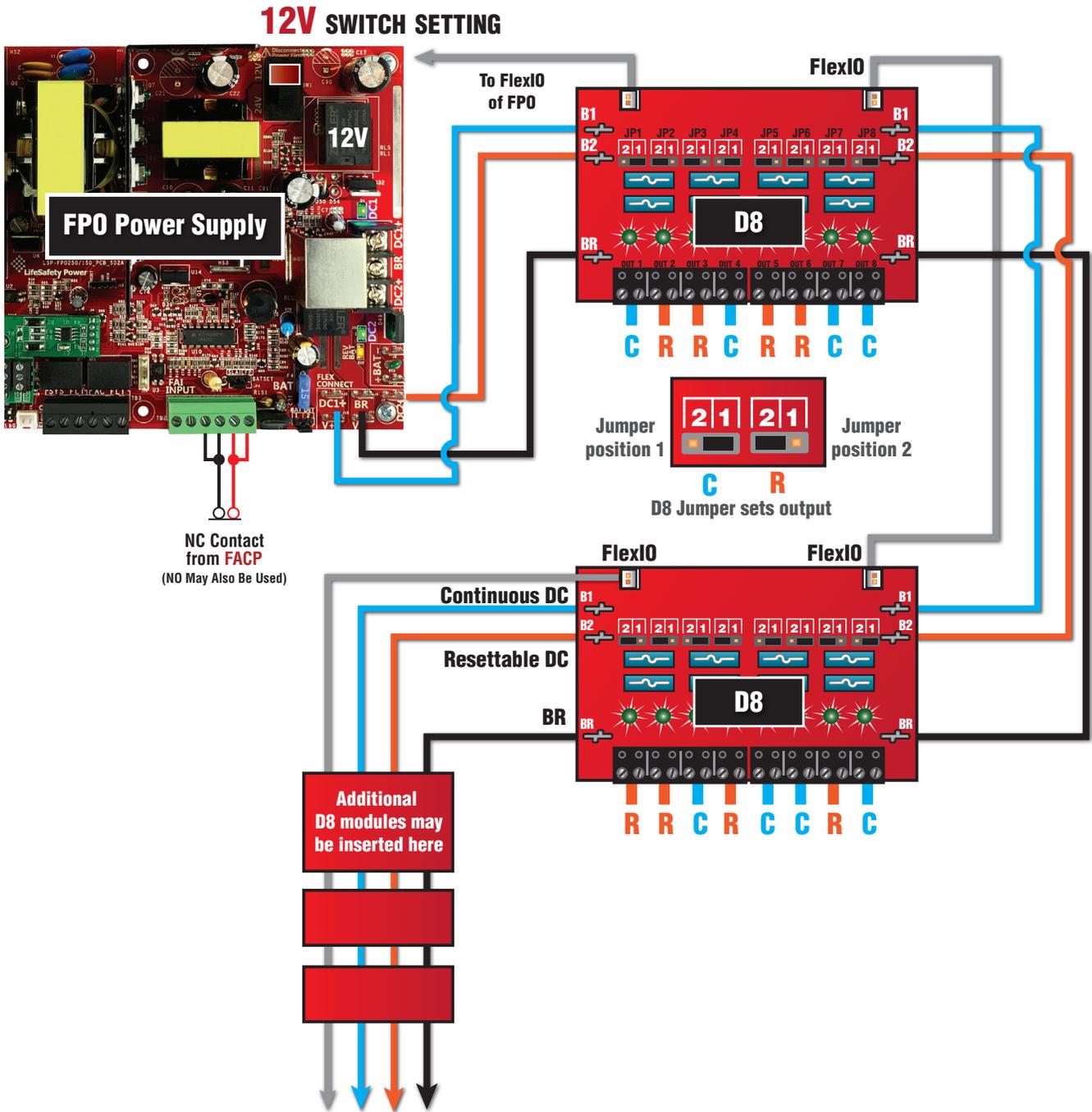


Figure 2



TYPICAL WIRING FOR SINGLE VOLTAGE CONTINUOUS AND RESETTABLE DC OUTPUTS

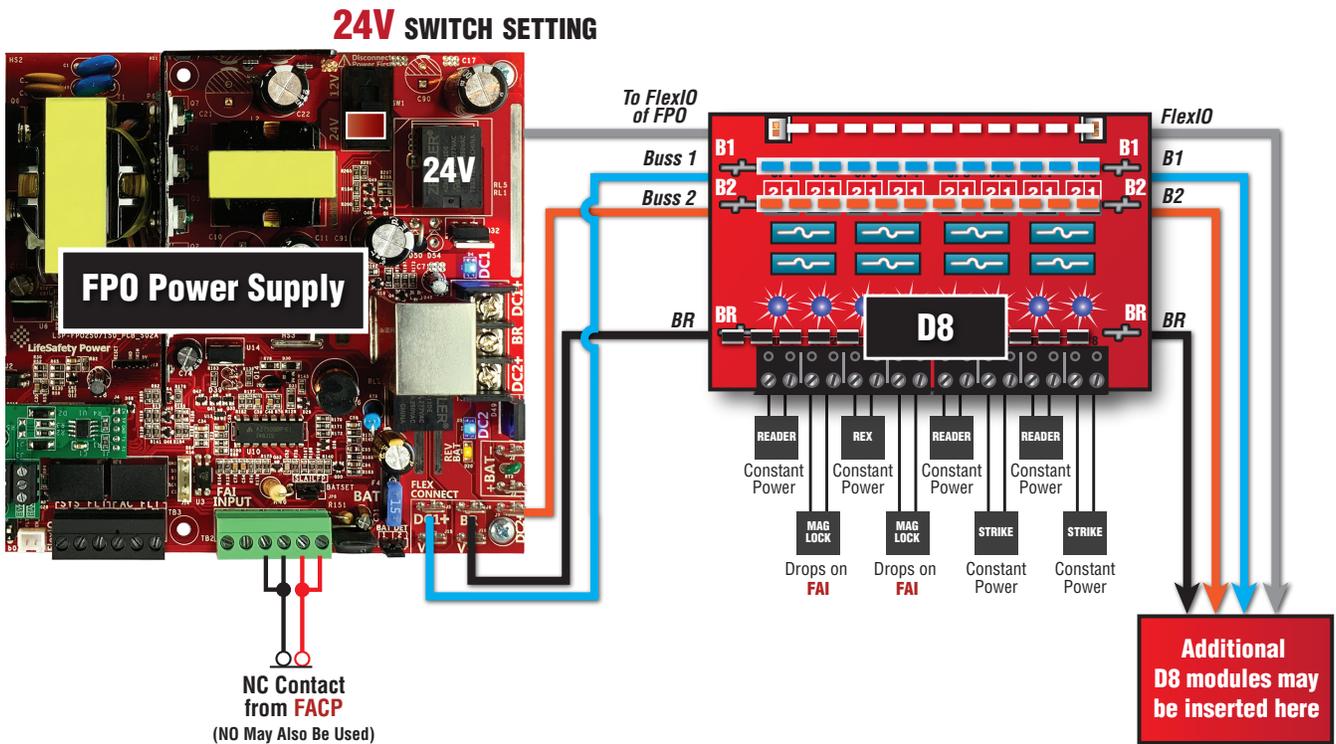
Example shows FPO at 12V setting. FPO can be set to 24V.



TYPICAL 4 DOOR SINGLE VOLTAGE - 24V

Mixed Reader / Rex / Strike / Mag Lock Power.

➤ Mag locks drop on FAI



ACCESSORY BOARD ORDERING

The specific LifeSafety Power part number is:

Model Number	Description
B100-Boxed	DC to DC converter provides +12VDC and adjustable voltage of 5 to 18VDC
C4-Boxed	4 input, 4 output lock controller, fuse protected
C4P-Boxed	4 input, 4 output lock controller, power limited
C8-Boxed	8 input, 8 output lock controller, fuse protected
C8P-Boxed	8 input, 8 output lock controller, power limited
D8-Boxed	8 output DC power distribution module, fuse protected
D8P-Boxed	8 output DC power distribution module, power limited
F8-Boxed	8 output programmable power distribution module, fuse protected
F8P-Boxed	8 output programmable power distribution module, power limited
RB2-Boxed	2A Relay, 12VDC or 24VDC input range, DP/DT
RB5-Boxed	5A Relay, 12VDC or 24VDC input range, DP/DT
RB8-Boxed	8A Relay, 12VDC or 24VDC input range, DP/DT

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