

OVERVIEW

The LifeSafety Power BCLASS line of Unified Power Systems was designed as an all in one solution, providing power to the Brivo controllers while also providing predrilled mounting holes for mounting the controllers within the same enclosure, simplifying and streamlining the installation. This application note will cover the basic wiring required between the power system and the Brivo Controllers and assumes a basic working knowledge of LifeSafety Power equipment and Brivo control panels.

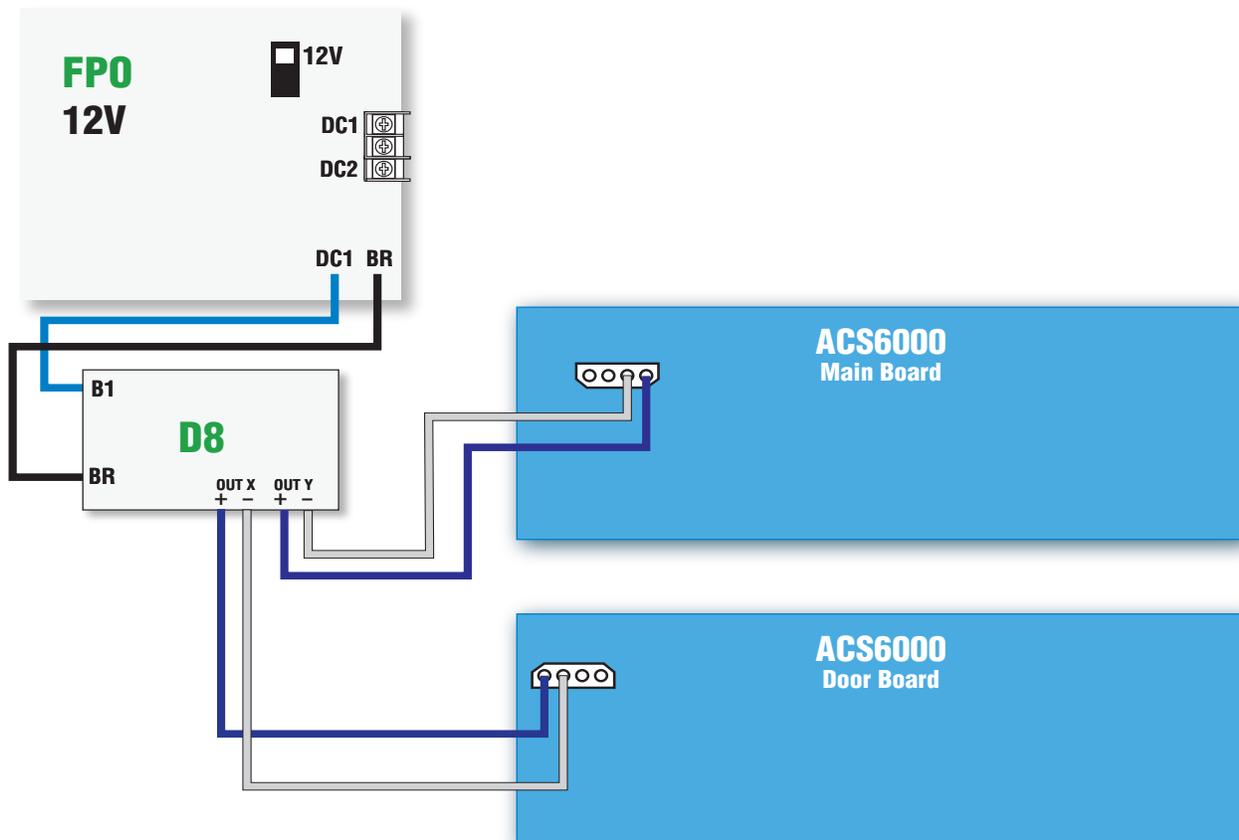
ACS6000 POWER

The ACS6000 boards require a 12VDC source for power - connection to 24VDC will cause immediate damage. Because of this, most Brivo power systems will need to be dual voltage (utilizing either two FPO power supplies or an FPO with a B100) to allow for 12V system power and 24V locking devices.

Power for the ACS6000 controller boards should ideally be taken from an available D8 output, or if necessary directly off the 12V FPO or B100 main output terminals. In order to make this connection, one end of the power cable supplied with the Brivo Controller will need to be cut in order to connect to the D8, FPO, or B100 output terminals. The power wires in the harness may need to be extended to reach the D8 terminals.

- If using the ACS6000 harness, use the white (-) and blue (+) wires as the power input to the controller.
- If using the ACS6008 harness, use the black (-) and red (+) wires as the power input to the controller.

The above steps should be repeated for every controller or door board within the enclosure.



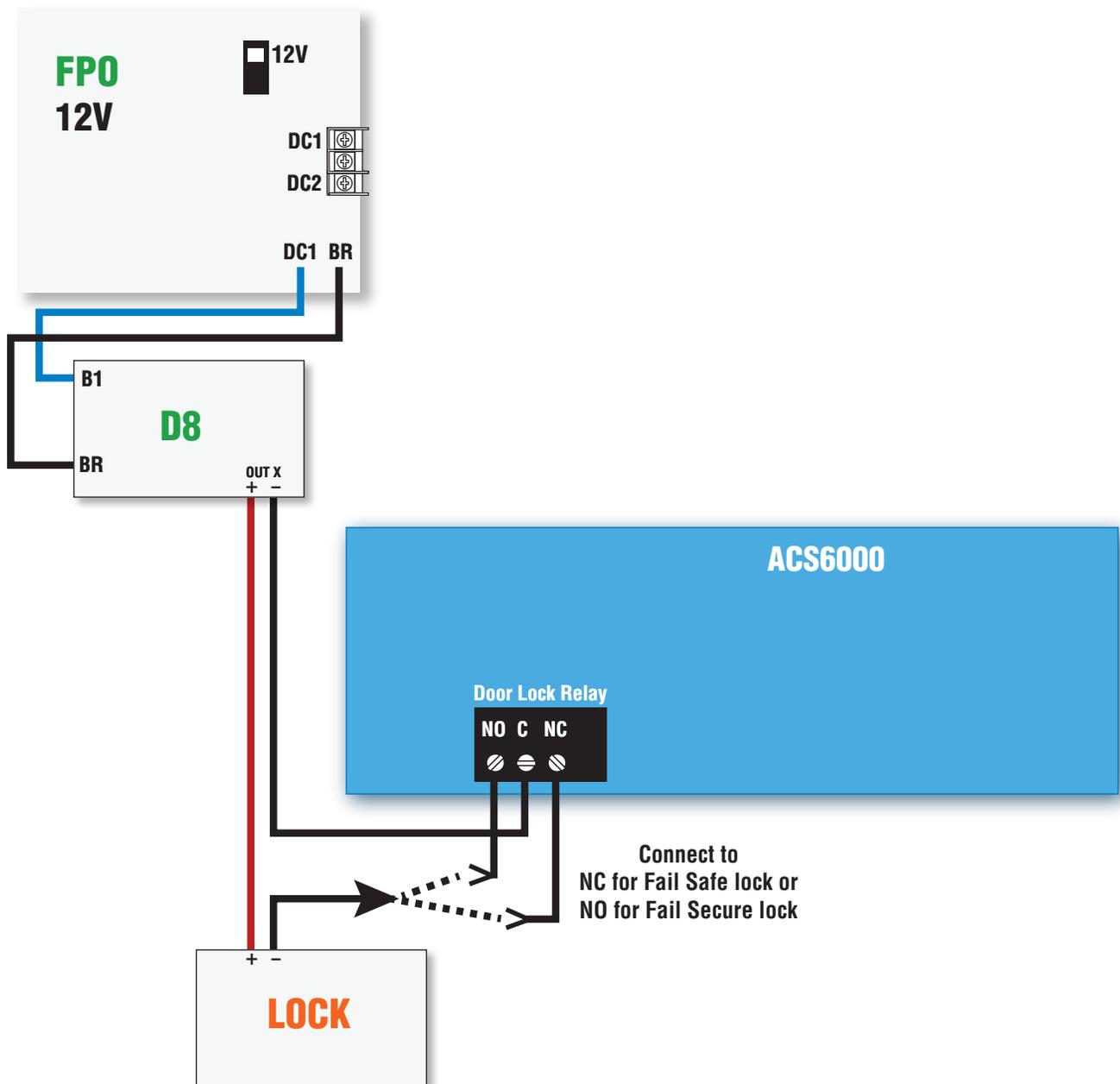
LOCK POWER

The ACS6000 controller and door boards provide dry relay outputs for controlling locks. To provide power to the locks a D8, F8, C8, or M8 may be used with the Brivo system as shown below.

Locks Powered by a D8 Module

For the lowest-cost solution, the output relays of the ACS6000 may be used to directly control the locks, using a D8 for power. If 24V locks are being used, a separate 24V FPO power supply is required.

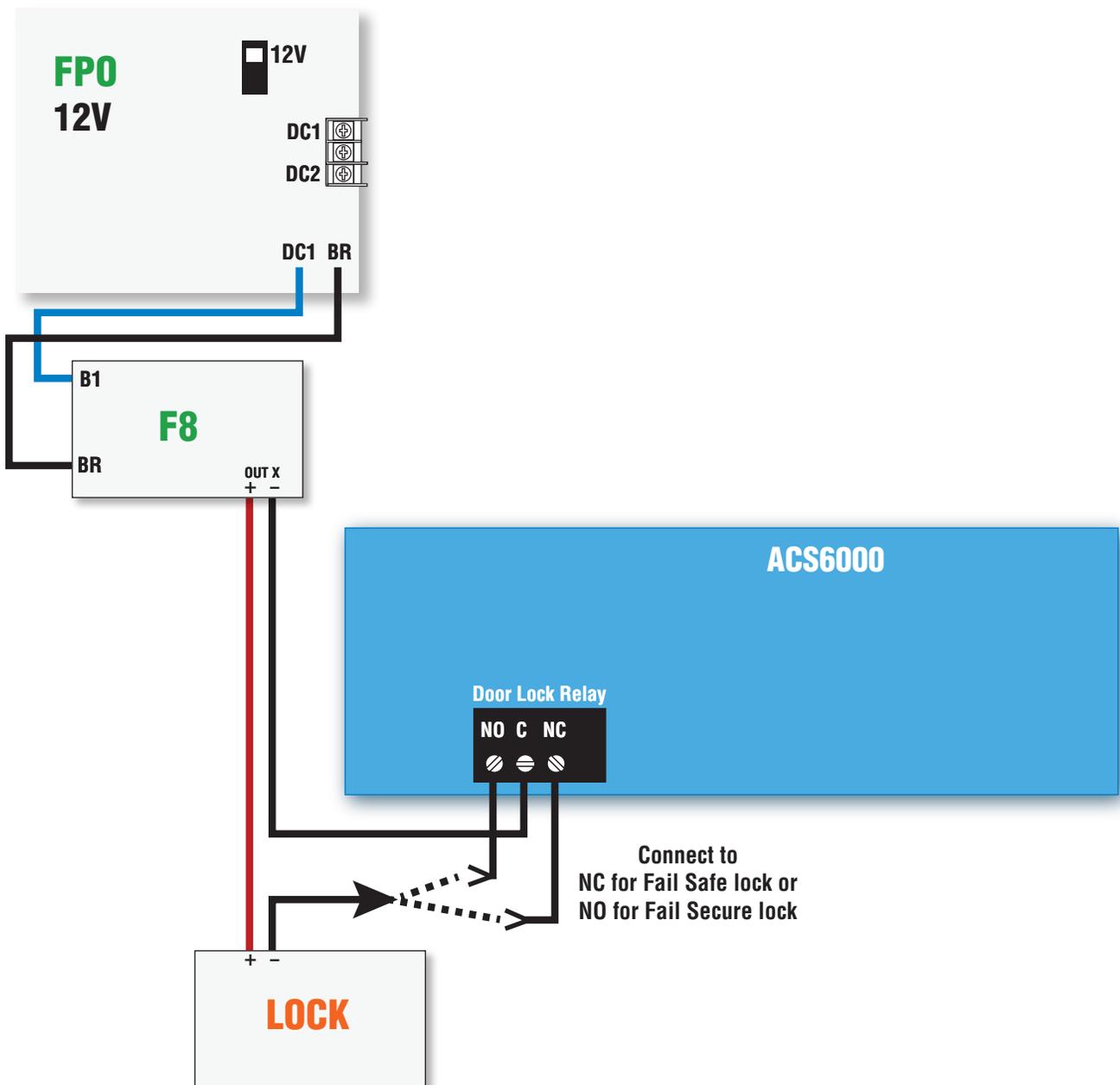
In single-voltage systems, each D8 output may be selected for constant, or FAI controlled voltage. In dual-voltage systems, each D8 output may be selected for 12V or 24V.



Locks Powered by a F8 Module

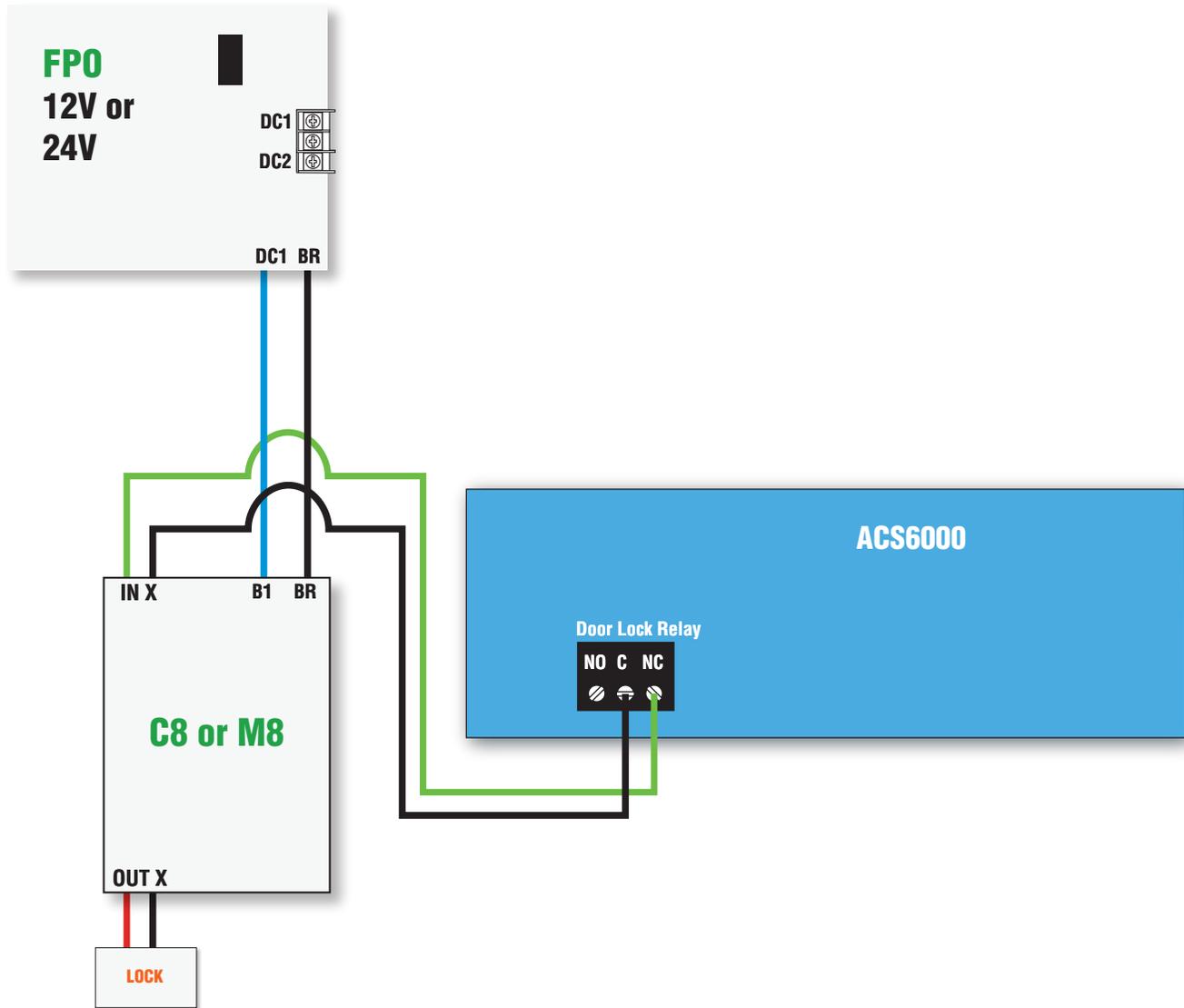
If FAI control of the locks is desired in a dual voltage system, an F8 module may be used.

Each output of the F8 may be selected for constant output, or FAI controlled output at either 12V or 24V (when used with a dual voltage system).



Locks Powered By An M8 or C8

The C4, C8, or M8 board acts as a "buffer" between the ACS6000's output relays and the high current locks. In this scenario, the ACS6000 only switches the low-current input of the C4/C8/M8, while the high current switching is handled by the C4/C8/M8, prolonging the life of the relays in the ACS6000. The M8 provides network monitoring and control of each individual output, while the C4 and C8 are lower cost without the monitoring. Wiring of each of these boards is the same.



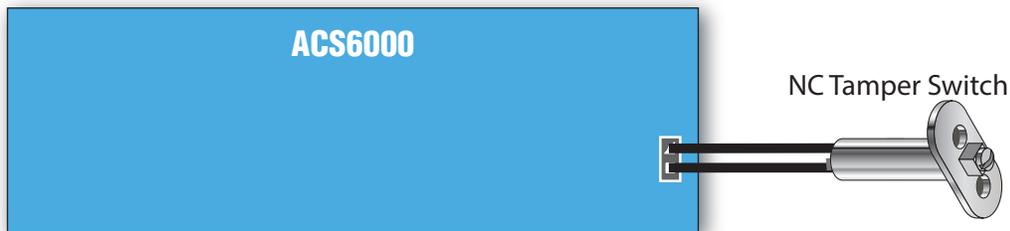
MISCELLANEOUS

There are some miscellaneous items which may be wired between the FPO power system and the ACS6000.

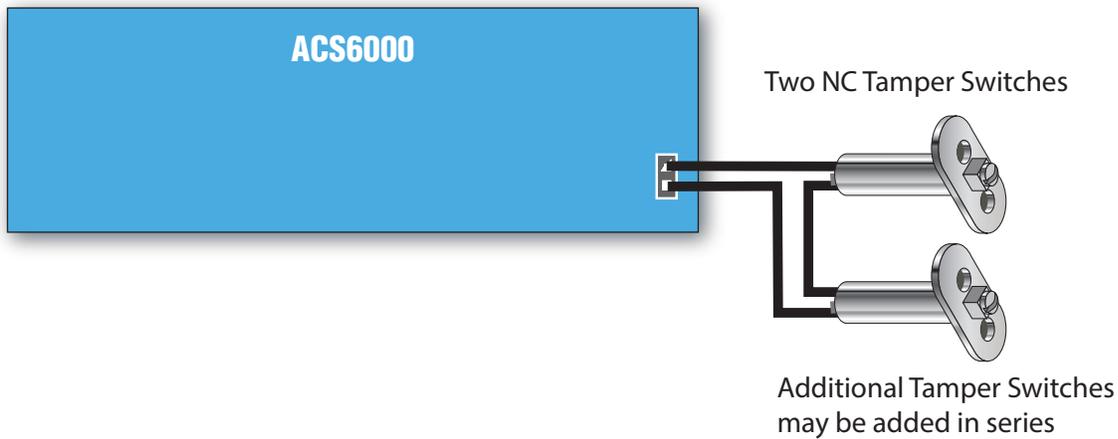
Tamper Switch Wiring

The normally closed (NC) tamper switch on the FPO power supply's enclosure may be monitored by the ACS6000 main board, as shown below. If there are multiple NC tamper switches to be monitored, they should be wired in series as shown.

Single Tamper Switch



Multiple Tamper Switches



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