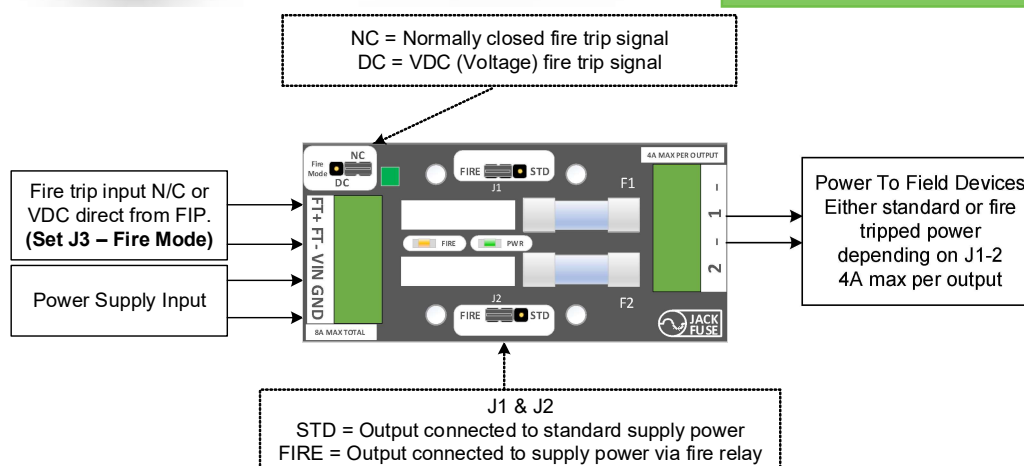


Power Port PP2FR-HC Installation Note

The Power Port 2FR-HC is a compact power distribution module with built in fire trip interface and two high current capable outputs.

Suitable for two door controllers, adding outputs to existing Power Port modules and high current applications.



Mounting

The PP2FR-HC is fitted with two DIN rail mounting clips that suit most popular top hat and G profile rails. For low profile enclosures the PP2FR-HC is also suitable for the popular "Snap Track" mounting method. (TE Connectivity, part number 4TK2)

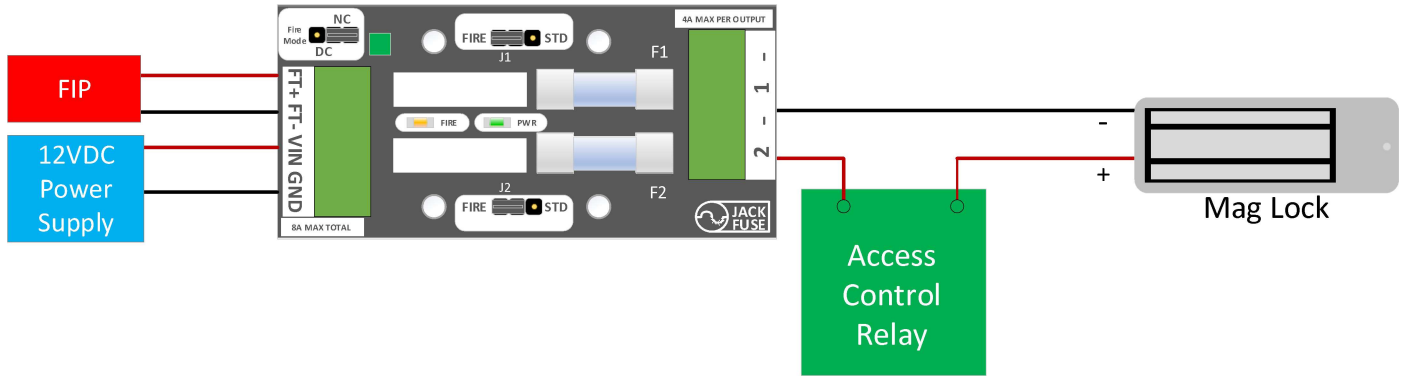
Settings

Warning: It is important to correctly set and check J3 before applying a fire trip to the PP2FR-HC module. Incorrect jumper settings may cause damage to the module and other equipment.

Jumper/Link	Position	Description
J1-2	STD	Associated output connected to standard supply power
	FIRE	Associated output connected to supply power via fire relay
J3	NC	Fire trip interface normally closed contact in fire panel
	DC	Fire trip interface DC voltage from fire panel

Two Door Controllers

The PP2FR-HC is suitable for use with any two-door access controller to provide a fire trip and power protection. The PP2FR-HC can be mounted with the controller, in the field or in a central panel.

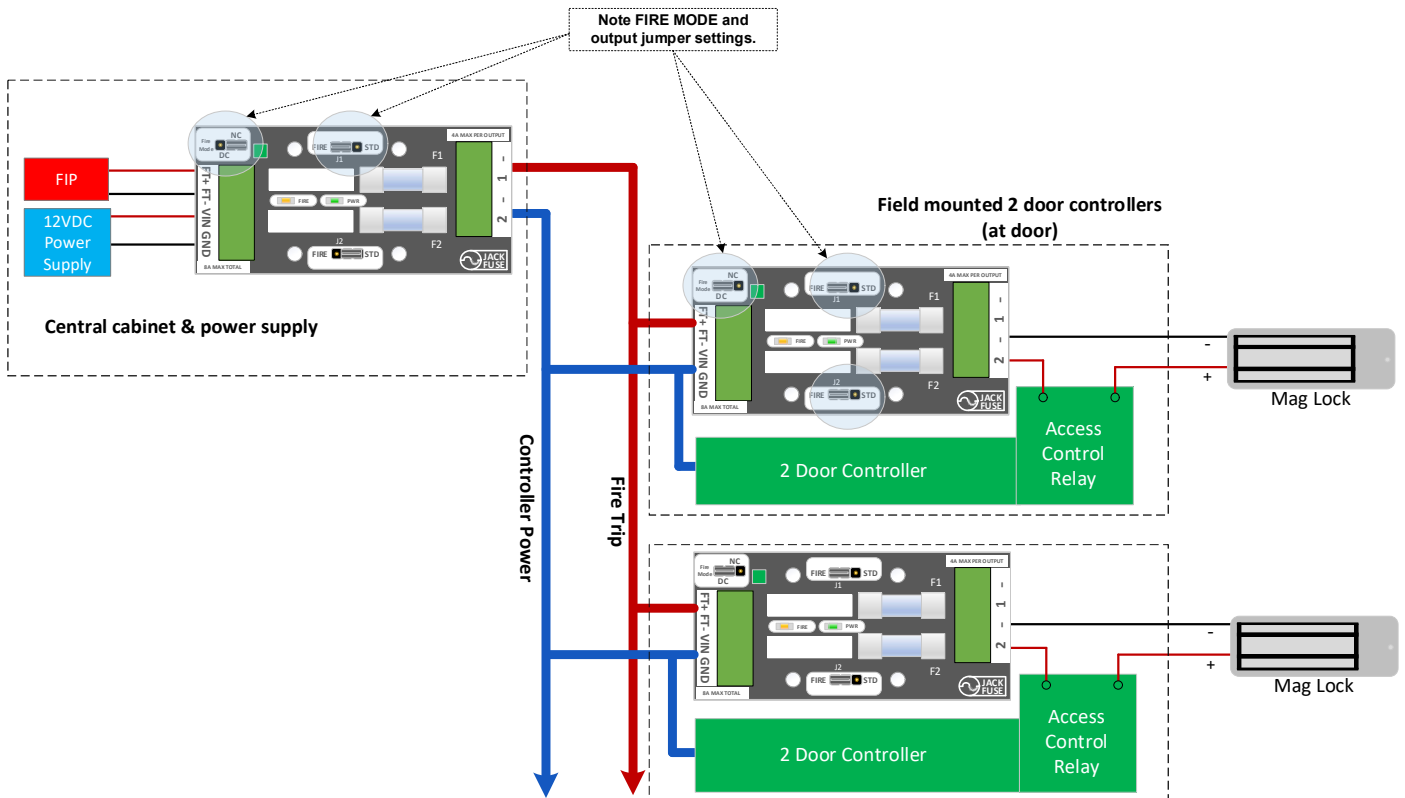


The below example shows a PP2FR-HC centrally located with a power supply that feeds multiple door controllers and local PP2FR-HC modules located in the field.

The central PP2FR-HC provides a main fire trip and protection to shared lock and controller power cables.

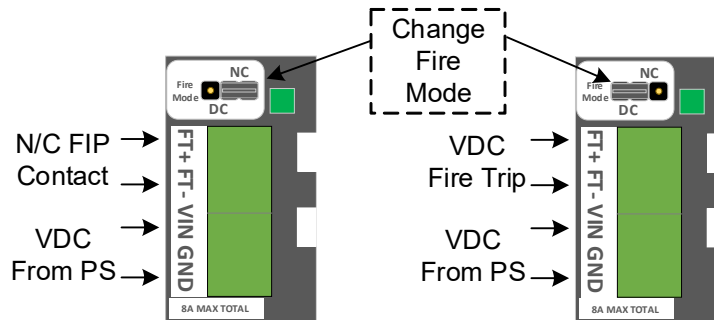
The local PP2FR-HC provides fire trip and protection to the associated individual lock cables.

This method provides excellent over current protection and power redundancy. Note. The fuses in the field mounted PP2FR-HC can be changed to smaller values to suit each scenario.

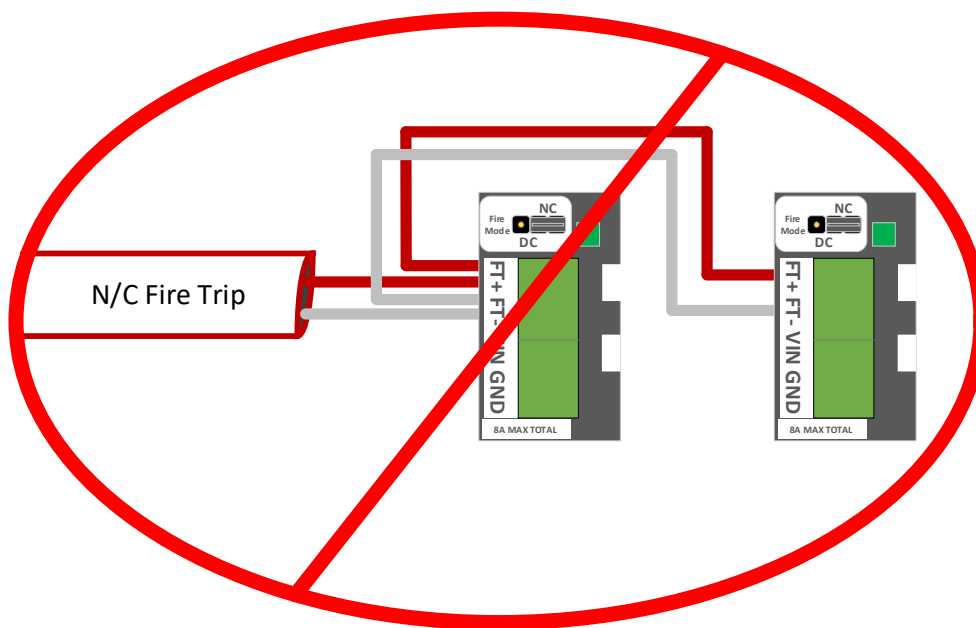


Fire Trip Interface

The on-board fire relays are designed to provide a failsafe method of fire trip interface. There are two options for connection to the FIP. (Fire Indication Panel.) A normally closed, voltage free contact can be used. Alternatively, the FIP or another device can supply a DC voltage. Both options are terminated directly to the FT+ and FT- terminals and Fire Mode link J3 set to match. Correct voltage polarity must be observed.



Note: The fire trip circuit includes a built in self-healing fuse (F3). This fuse is designed to protect the fire trip cable in case of short circuit or an incorrectly installed/terminated module.



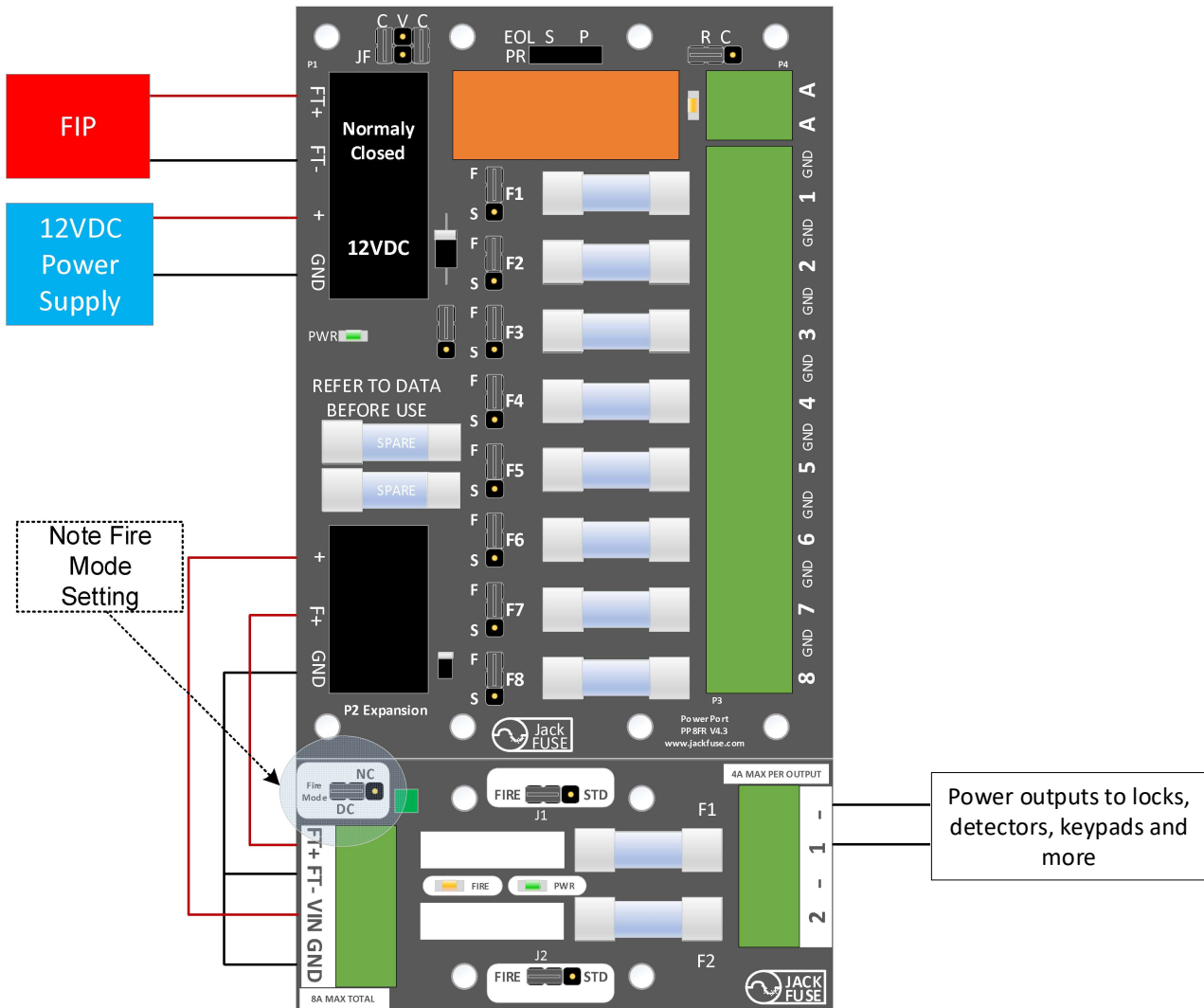
WARNING: Do not connect a N/C fire trip signal in parallel to multiple fire trip interfaces.

Use a VDC trip for downstream fire interfaces.

Expansion

A common use for the PP2FR-HC is to provide additional fused outputs to a PP8FR/PTC module.

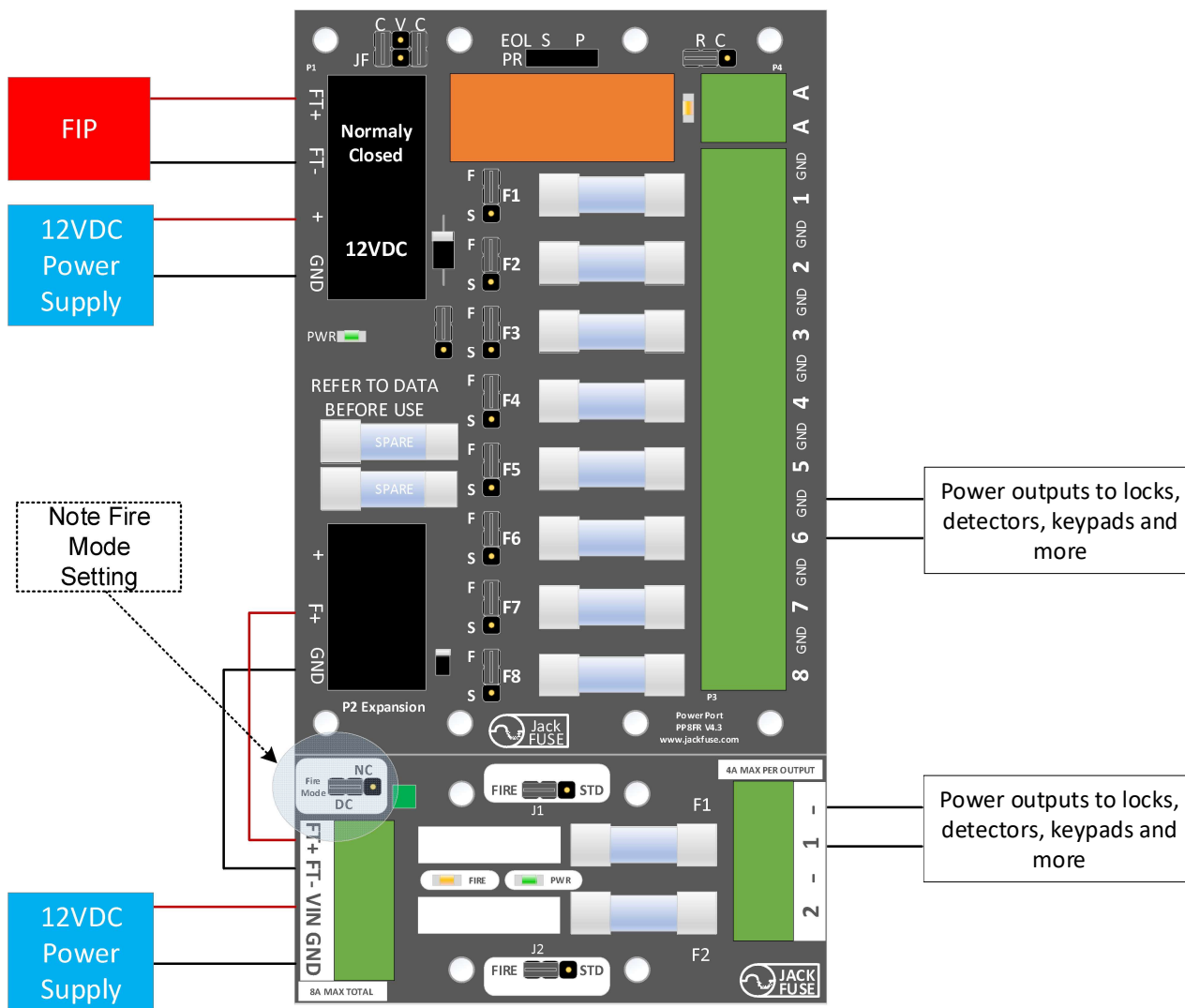
When using a single power supply, care must be taken to keep the total current below 8A.



Expansion with single power supply. Do not exceed 8A Total.

When using a separate power supply, as pictured below, both the PP8FR and PP2FR-HC can each supply 8A. (Assuming the power supplies are rated at 8A or above.)

Note the Fire Mode (J3) setting must be changed to suit each application.



Expansion with separate power supplies. Do not exceed 8A per module.

Technical Data

Input voltage range	PP2FR-HC-12 – 12VDC +/- 20% PP2FR-HC-24 – 24VDC +/- 20%
Fire relay coil voltage	PP2FR-HC-12 – 12VDC +/- 20% PP2FR-HC-24 – 24VDC +/- 20%
Max current per board	8A
Max constant current per output	4A*
Fused outputs	2
Fuse type	4A Fast Blow
Mounting	DIN rail
Dimensions	35 L X 75 W X 51 H (mm)
Country of origin	China

*Note a small voltage drop will be present across the fuse when approaching the full current rating.

Connections

Terminal	Description	Max Conductor Size
P1 – FT- FT+	Fire panel trip interface	3.5mm ²
P1 – GND & VIN	DC Power supply input	3.5mm ²
P2 1 - 2	Fused outputs	3.5mm ²

Indicators

LED Designator	Description
D1-2	Fuse status, "on" indicates fuse intact and power is available.
FIRE	Fire relay status, "on" indicates fire trip input is active
PWR	Indicates power is available from the power supply.

Ordering Code

PP2FR-HC-12	Power Port 2FR-HC supplied with a din rail mount kit, fire relays and 2 X 4A outputs. Suitable for 12VDC
PP2FR-HC-24	Power Port 2FR-HC supplied with a din rail mount kit, fire relays and 2 X 4A outputs. Suitable for 24VDC
PP8FR	Power Port 8FR supplied with a din rail mount kit, fire relay and 8 X 1A glass fuses.
PP10MG	Power Port 10MG supplied with a din rail mount kit and 10 X 1A glass fuses
PP8PTC	Power Port 8PTC supplied with a din rail mount kit, fire relay and 8 X self-healing fuses.
PP5FR-UNI	Power Port 5FR-UNI, mounts in Gallagher and Inner Range module footprints. 5 X Self-healing fuses. Din rail mount kit optional.
PP10HD	Power Port 10HD supplied with a din rail mount kit and 10 X 1A self-healing fuses

Learning

Become a **Jack Fuse Product and Power Certified Technician**.
Free training available online.

More Information: For complete installation notes, data sheets and technical support please visit www.jackfuse.com

