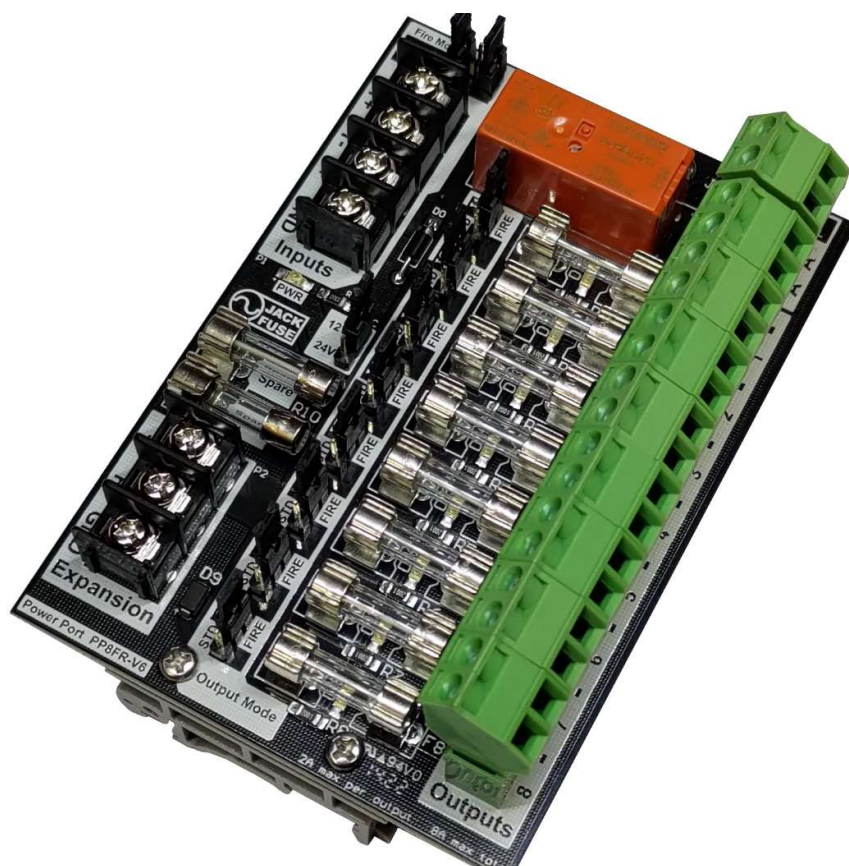




Power Port 8FR (V6) DATASHEET

The Power Port 8FR is an expandable module designed to provide protected power distribution for electronic access control and security devices.

The PP8FR also interfaces electronic access control devices to a building's fire detection and emergency evacuation system.

Applications

- Power distribution for electronic access control and security devices
- Fused over-current protection
- Automatic fire alarm emergency release of electric door locks
- Fire trip monitoring

Features

- Eight individually fused outputs each with status LED
- Individually field selectable power outputs – fire power or standard power
- On board spare fuse holders
- DIN rail mounting
- Wide range of operation voltages
- Unlimited local and remote expansion options
- N/C output for failsafe fire trip connection to extra modules or other equipment
- Drive fire relay directly from FIP voltage or onboard voltage via N/C FIP contact
- Unfused auxiliary output for expansion (see module PP10HD)
- Reduced material list, cost and install time compared to traditional methods

Benefits

The PP8FR reduces install time for technicians and helps ensure security system reliability by replacing the normally complex wiring task of fire trips with a simple, easy to fault find, all in one solution featuring built in fuses to further protect expensive installations.

Technical Data

Input voltage range	0-28V DC
Fire relay coil voltage	12-24V DC (or dry contact)
Max standard power current	8A
Max fire power current	8A*
Max constant current per output	2A (with 2A replacement fuse)
Fused outputs	8
Fuse type	1A Normal Blow M205
On board spare fuse holders	2
Mounting	DIN rail
Dimensions	110 L X 75 W X 50 H (mm)
Country of origin	China

*Peak current only – resistive load. A 20% load current margin is recommended for fire power current (6.4A). Many devices, including electric locks, have a higher current on start-up and at other times; this must be accounted for in the peak current. Current ratings are valid for operating temperatures up to 24 degrees C with a fire trip of 12VDC. Factors such as lock types, external heat and higher fire trip voltages must be considered when designing power loads.

Connections

Terminal	Description	Max Conductor Size
P1 – FT- FT+	Fire panel trip interface	2mm ²
P1 – GND & +	DC Power supply input	2mm ²
P2	Expansion Output	2mm ²
P3 1 - 8	Fused outputs	2.5mm ²
P3 A-A	Monitoring/output	2.5mm ²

PR	EOL Resistor Sockets	¼ - ½ Resistors X 2
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Function

Power Input. The PP8FR module is powered by any suitable DC supply connected to the clearly marked input barrier terminals. A green power LED indicates power is available.

Fused Outputs. The eight power outputs are each individually protected by a glass fuse that will activate when a current greater than the fuse rating is drawn via the output.

The eight outputs can be fed either directly from the power input or indirectly via the fire trip relay (for 'fire power'). This function is set via a link for each output and can be changed at any time to suit requirements.

Each output has an individual status LED. The LED will be active whenever power is available at the output. The LED will deactivate in the event of a blown fuse or if that output is set to fire power and the fire relay has tripped. Each status LED is located directly under the associated glass fuse to greatly aid visual confirmation of fuse status.

Fire Trip Relay. The fire trip relay may connect to the fire indication panel in two modes. It can be activated by 12 or 24VDC from the fire panel or via a voltage free N/C contact at the fire panel or other device. The operation mode and voltage used is set by on-board links.

When the relay is active, power will be available via the primary relay contact. This power is the input power switched via the relay and is commonly known as fire power. This power can then be used at each output. If the relay de-activates due to a fire alarm, then the fire power will no longer be available.

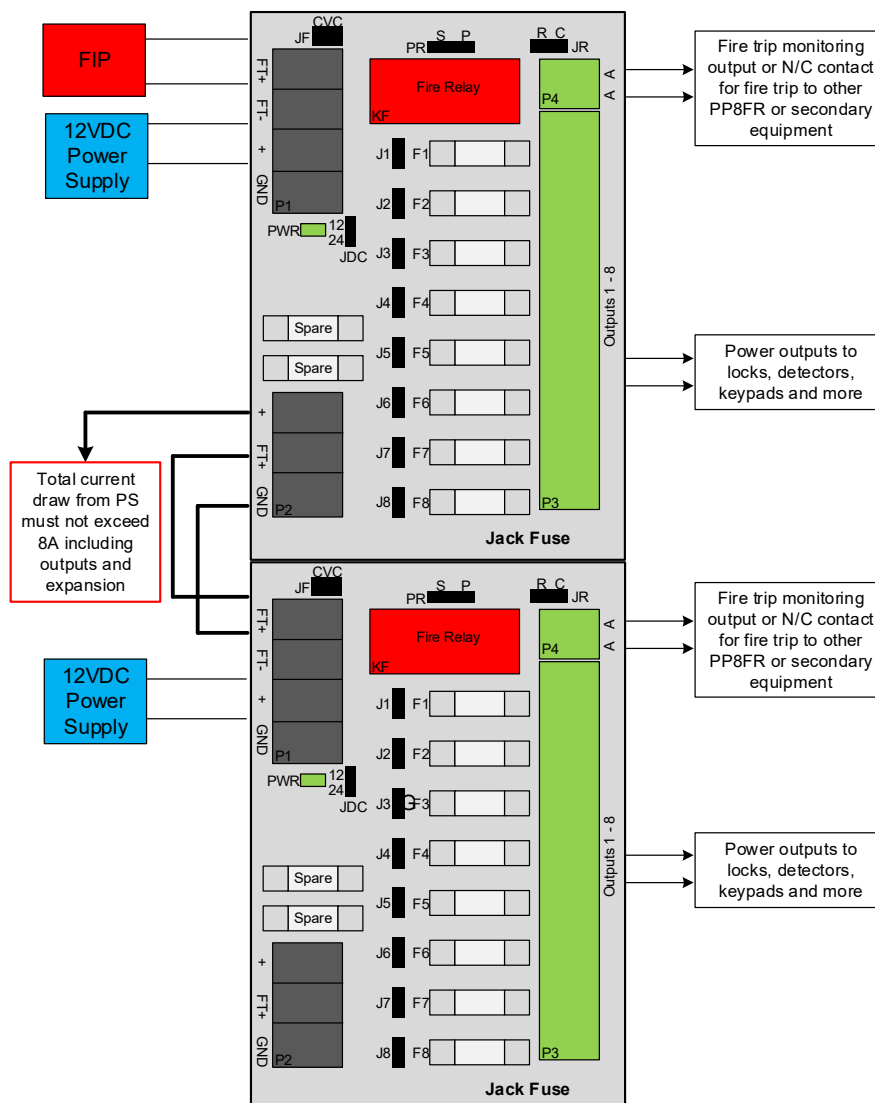
Fire Trip Monitoring. A secondary contact of the fire relay is used for monitoring. The status of the fire trip relay can be indicated to any security panel via an output. Suitable End of Line (EOL) resistors can be fitted to onboard sockets, so no soldering is required. Alternatively, a link setting will allow the output to convert to a normally closed voltage-free contact for connection to another PP8FR module or other equipment. (See Expansion)

An LED provides visual indication of the fire relay status and will be illuminated when the fire relay is active.

Expansion

Output terminals are provided for connection to expansion modules PP10HD/MG or to other equipment. The expansion output provides supply power, fire power and a common ground. Several additional PP10HD/MG modules can be fitted at any time if current limits of the fire relay, modules and power supply are not exceeded.

Additionally, the N/C relay status output can be used to operate an additional PP8FR either in a local panel or remotely. In this way modules can be added to suit any size access control/security system.



Expansion Example

Mounting

The PP8FR module is supplied pre-fitted with cost effective DIN rail mount clips suitable for most DIN rail profiles.

The PP8FR is also suitable for use with popular 'Snap Track' made by TE Connectivity; part number 4TK2.

Specifier Text

Electric locks on any door in a fire egress path must be interfaced to the emergency evacuation system in such a way that they unlock during an alarm. This shall be achieved via an interface relay built into a DIN rail mount power distribution module. A secondary fire interface relay contact shall be monitored for alarm activation.

Each electric lock shall be individually powered via a fused output from the fire tripped power distribution module. (Refer to AS/CA S0009:2020) The fire trip module shall have field selectable outputs that can provide either standard (non-tripped) power or fire tripped power. An LED shall indicate the status of each fuse. Replaceable glass fuses shall be used and selected to match over-current protection requirements.

Ordering Code

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 PPTC fuses.
PP10HD	Power Port 10HD supplied with a din rail mount kit and 10 X 1A PPTC fuses
PP5FR-UNI	Power Port 5FR-UNI, mounts in Inner Range and Gallagher footprints. Supplied with fire relay and 5 X PPTC fuses.
PPDIN1	Optional mounting kit for the PP5FR-UNI. Suits most DIN rail profiles.

Learning

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