

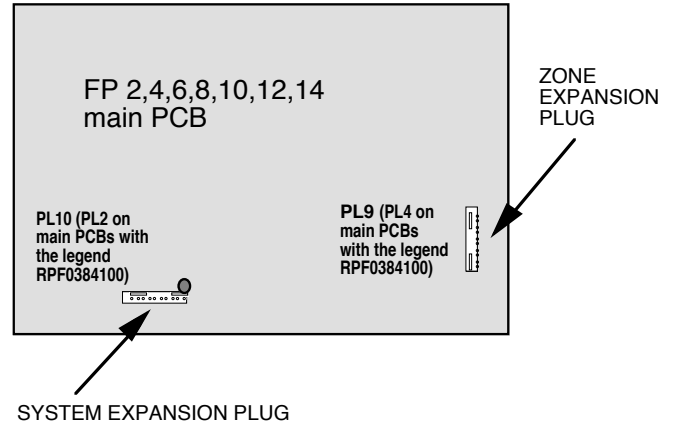
FF374-X

FPX EXPANSION LOOM

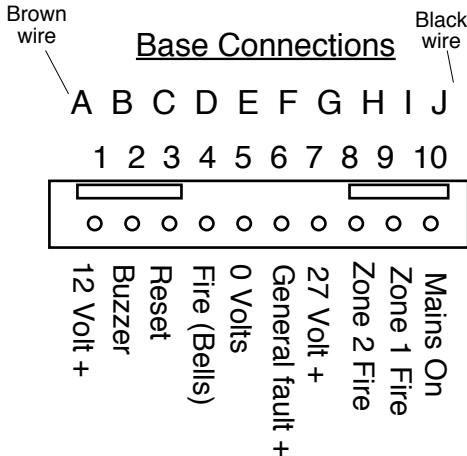
GENERAL

This datasheet has been prepared to help experienced fire alarm engineers with a thorough knowledge of CMOS circuitry gain access to non-standard facilities of the FP range of fire alarm control panels. If connections made cause any circuits to be overloaded, damage may occur and the warranty will **not** cover repair costs.

The FP2 to FP14 range of control panels are fitted with a system expansion plug PL10 (PL2 on control PCBs with the legend RPF0384100) which can be used to provide various features, such as repeater panels, fault relays etc. Connections for these are covered in detail on separate datasheets. The EFP1 single zone panel is not expandable in this way.



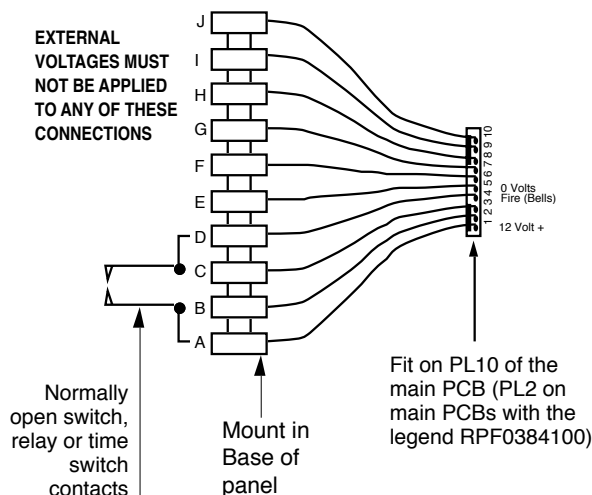
Pinout Details: All of these connections are very low current and **MUST** not be used to operate any lamps, relays etc. Note: Current drawn from these outputs will affect stand-by time.



- Pin 1 12 Volt supply rail (Max. output 50mA)
- Pin 2 Buzzer. Normally high (12V). Goes low (0V) when the buzzer sounds. Max output 50 mA. The buzzer can be made to sound by connecting this pin to pin 5.
- Pin 3 Reset. This pin goes high (12V) when the reset button is operated. Max output 10 mA. If this pin is driven high the panel will reset. **EVEN IN ALARM.**
- Pin 4 Fire (Sounders). Goes high (12V) when the sounders operate. Max output 10 mA. The sounders can be made to operate by connecting this pin to pin 1.
- Pin 5 0 Volts
- Pin 6 General Fault. Goes high (12V) whenever a fault exists. Max. output 10 mA.
- Pin 7 +27 Volt. This is the main positive supply rail. Any current drawn here will affect the standby time of the system.
- Pin 8 Zone 2 Fire. Goes high (12V) when zone two is in fire. Maximum output 10 mA.
- Pin 9 Zone 1 Fire. As Zone 2.
- Pin 10 Mains on. + 40 volts unregulated. Max output 10mA.

Class Change Sounders via System Expansion Plug

The sounder output of FP range panels can be activated without latching the panel and without any front panel indication by connecting pins 1 and 4 of the system expansion plug together via a switch, relay or time clock. An FPX Expansion Plug Connector Kit should be used to extend the connections to the back of the panel.



Cross connecting panels without indication

Up to three panels can be connected so that if one panel goes into alarm the others will also go into alarm. Resetting the panel which caused the alarm will silence all panels. The other panels cannot be silenced locally. The sounders are driven from each panel separately. There is no visual indication on the front of the panels other than the one which caused the alarm.

An FPX expansion plug connector kit should be used to extend the connections to the back of the panel.

Connect pin 4 on each panel to pin 4 on every other panel.

Connect pin 5 on each panel to pin 5 on every other panel.

