

Shutdown Isolation Switch for use with Sigma XT Conventional Fire Control Panel

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1. Introduction

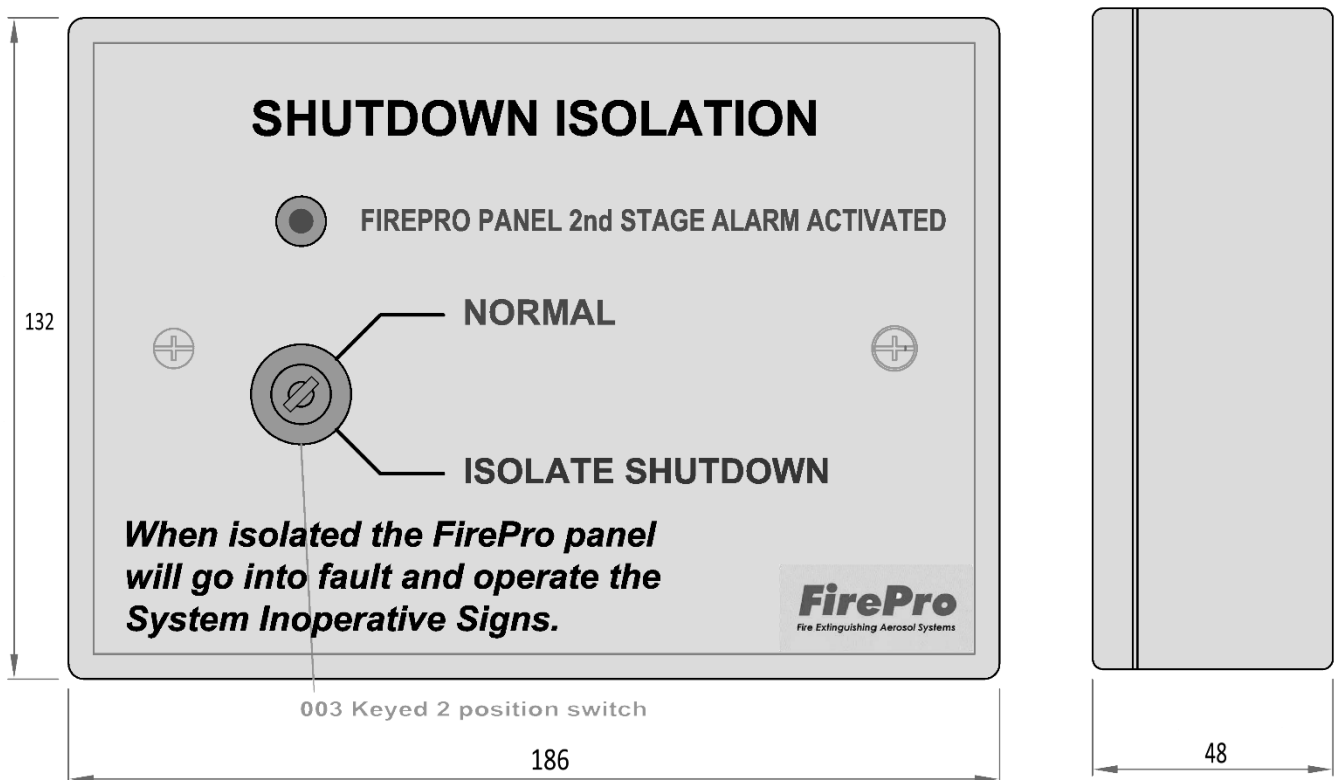
The SIGMA XT+ conventional fire alarm control panel often has to shutdown devices when the system operates. This is necessary so that any equipment within the risk, such as air-conditioning, needs to be shutdown prior to the activation of the suppression system.

Other devices commonly required to be shutdown are computer servers, power systems and the like.

Monthly testing of the Fire Panel is required by standards, and in many cases these devices cannot be shutdown for testing when they are providing critical services.

The shutdown isolation switch allows for the equipment shutdown to be disabled during testing and maintenance. The switch, when operated, will create a fault at the fire panel which will ensure that the equipment shutdown is not left in the isolated state after the testing is completed.

2. Mounting



3. Connecting to the circuit board

All connections for field wiring are to a single row of terminals along the top of the circuit board.

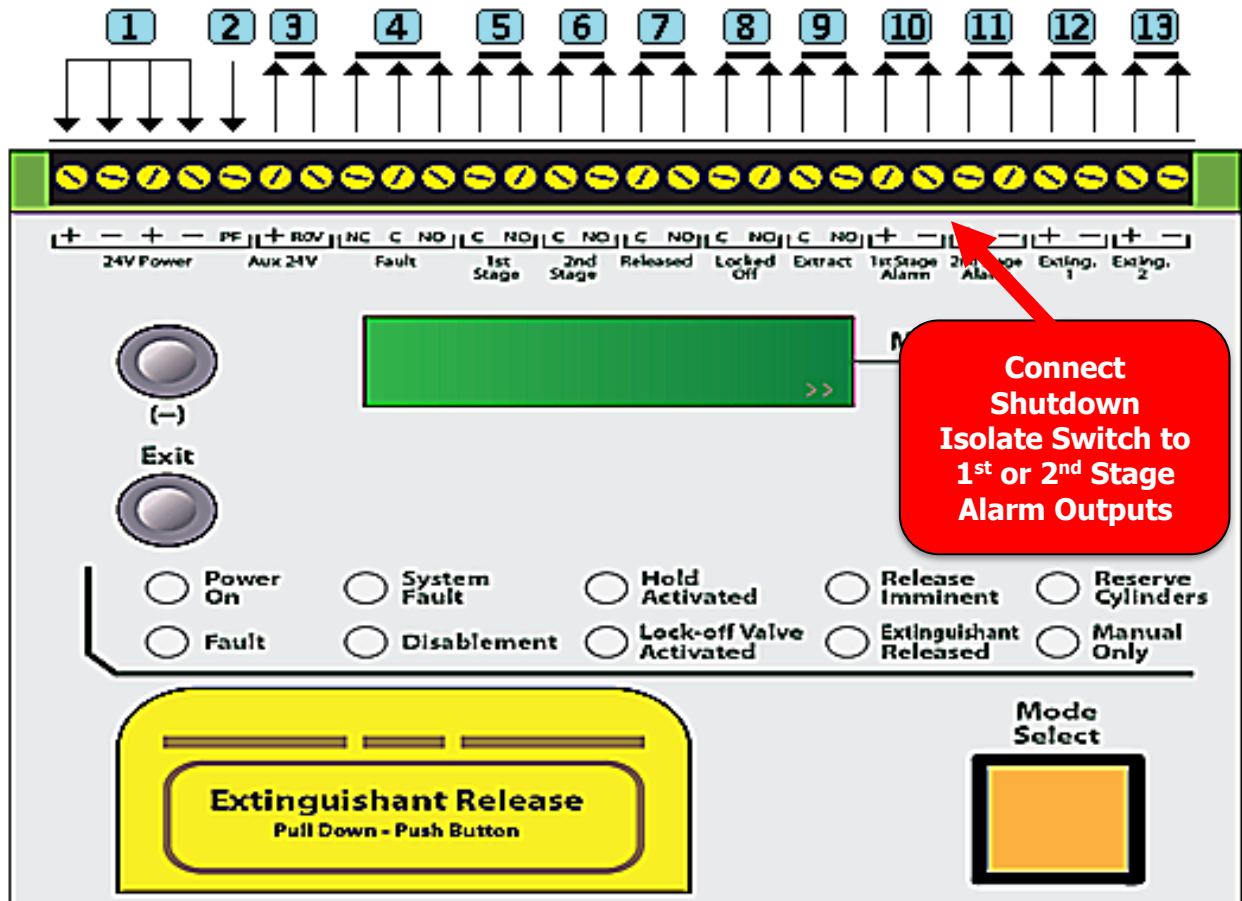
Cabling must comply with the Australian Standards. The resistance of any cable must not exceed 25 ohms.

Terminals are capable of accepting wires of up to 2.5mm².

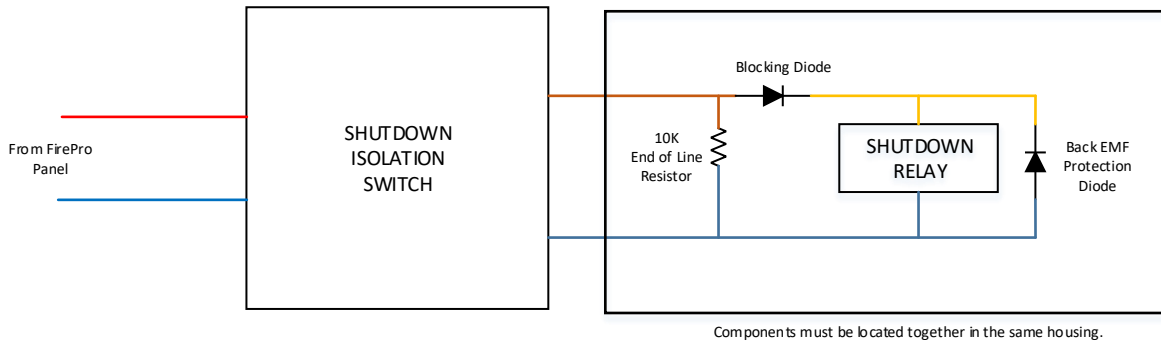
Wiring must not go across the front of the circuit board plate or between the plate and the circuit board.

If cable entries need to be in positions other than at the knockouts provided, wiring must be fed behind and well away from the surface of the circuit board.

The space at the bottom of the enclosure is largely occupied by the batteries so this must be borne in mind when considering cable entries.



4. Wiring Diagram



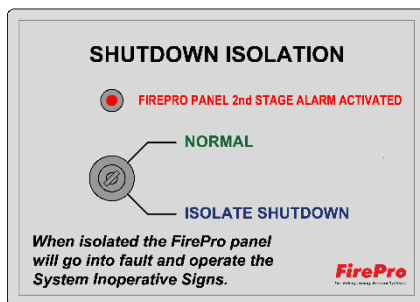
Note: The blocking diode, shutdown relay, back EMF protection (flyback) diode and end of line must be contained within the same enclosure and as close together as possible to ensure correct monitoring of the circuit.

End of line is 10K 0.25W
Diodes are 1N4004

Maximum Current draw allowable is 0.5A at 24V

Monitoring Voltage: -5V Pulsing.

5. Configuration of Isolation Switch



The switch when "isolated" will activate the System Inoperative sign and stop the shutdown signal to the connected devices. This is a powered output to drive a relay.

To install this switch connections as follows:

The *Second Stage Alarm Output* **MUST** be configured to be steady when using this switch. The factory default for the second stage alarm is pulsing.

+	From FirePro Panel 2nd Stage Alarm
-	
+	To Server Shutdown Relay 24Vdc 1Amp 10K EOL
-	

To change, open the *Display Window* and slide the *Write Enable* switch to the left. Press the *Enter* button on the extinguishant module then press the "+" button until the display shows:

**PULSED
ACTIV. ALARMS**

To change to steady second stage alarms, press *Enter*. To save, slide the *Write Enable* switch to the right.

**STEADY
ACTIV. ALARMS ?**

The *Second Stage Alarm Output* will now be steady when the module is activated.