



# Merlin FAB-1



## User Guide



Please read this guide carefully and retain for future use.

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# 1 General Information

The Merlin FAB-1 is a fire alarm bypass panel.

The Merlin FAB-1 is designed to allow gas to remain on- for a pre-determined time during a fire alarm test. The FAB-1 should be activated before a fire alarm test to allow the gas supply to remain on. This is done by turning the key switch on the fascia of the panel, a countdown timer is activated. The countdown timer can be adjusted inside the panel to allow the gas supply to remain on for between 10 and 45 minutes.

When the FAB-1 is in operation the panel will beep every 20 seconds until there is 5 minutes before the end of the timeout, the FAB-1 will then beep every 10 seconds and the bypass LED will start to flash. During the bypass time gas can still be shut off, pressing the emergency shut off button will close the gas solenoid valve.

It is recommended that the user reads this guide before using the system. Please do NOT attempt to operate the unit until the contents of this document have been read and are thoroughly understood.

## 1.1 Panel Mounting

The control panel is designed for surface mounting using 4 mounting screws. Removing the cover on the panel gives access to the circuit board.

The PCB should be removed before drilling entry holes into the case.



## Important Warning Statements

Never ignore your device when in alarm.

This device requires a continual supply of electrical power – it will not work without power.

This device should not be used to substitute proper installation, use and/or maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

Your product should reach you in perfect condition, if you suspect it is damaged, contact your supplier.

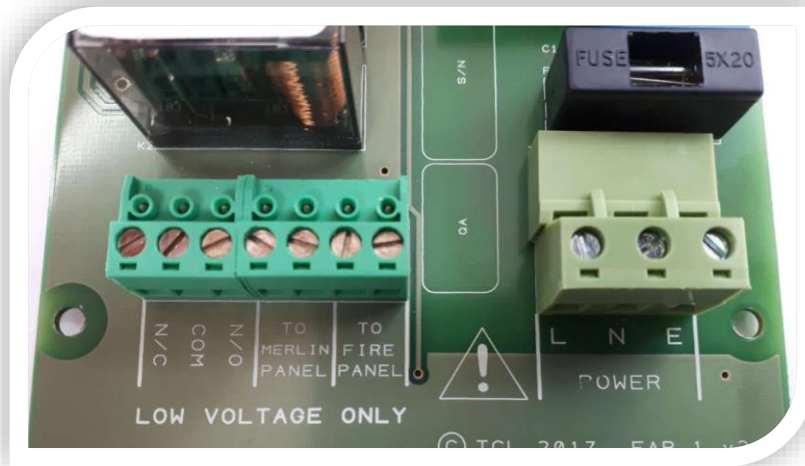


### Information on waste disposal for consumers of electrical & electronic equipment. (EEE)

When this product has reached the end of its life it must be treated as Waste Electrical & Electronics Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used.

Please contact your supplier or local authority for details of recycling schemes in your area.

## 2 Circuit Board Terminals



### 2.1 POWER

A 100-240VAC electrical supply should be supplied to the panel. This should be fused at 3A and connected to the terminals marked [LNE POWER].

### 2.2 TO FIRE PANEL

The terminal for a fire alarm panel is detailed on the circuit board as [TO FIRE PANEL], fire alarms should be volt free using a two core cable.

### 2.3 TO MERLIN PANEL

The terminal for the connection to a Merlin control panel is detailed as [TO MERLIN PANEL].

### 2.4 Building Management System (BMS) Connections:

Terminal connections are available on the circuit board for Building Management systems. Detailed on the circuit board as [BMS OUT - N/C, COM and N/O] (Normally Closed / Common / Normally Open).

These are volt free connections

## 3 Installation & Operation

### 3.1 System ON and OFF

- Turn the key switch to **[ON]** position.
- To turn the system off, turn the key switch to **[OFF]** position.



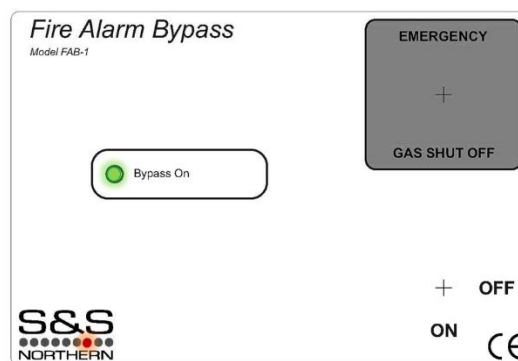
### 3.2 Timeout Facility:

The bypass time can be adjusted using the switches [S1] inside the panel on the circuit board.

Please see below the timeout variation you can select.

S1	S2	S3	Time (minutes)
Off	Off	Off	10
Off	Off	On	15
Off	On	Off	20
Off	On	On	25
On	Off	Off	30
On	Off	On	35
On	On	Off	40
On	On	On	45

## 4 Panel LED Status



### Power

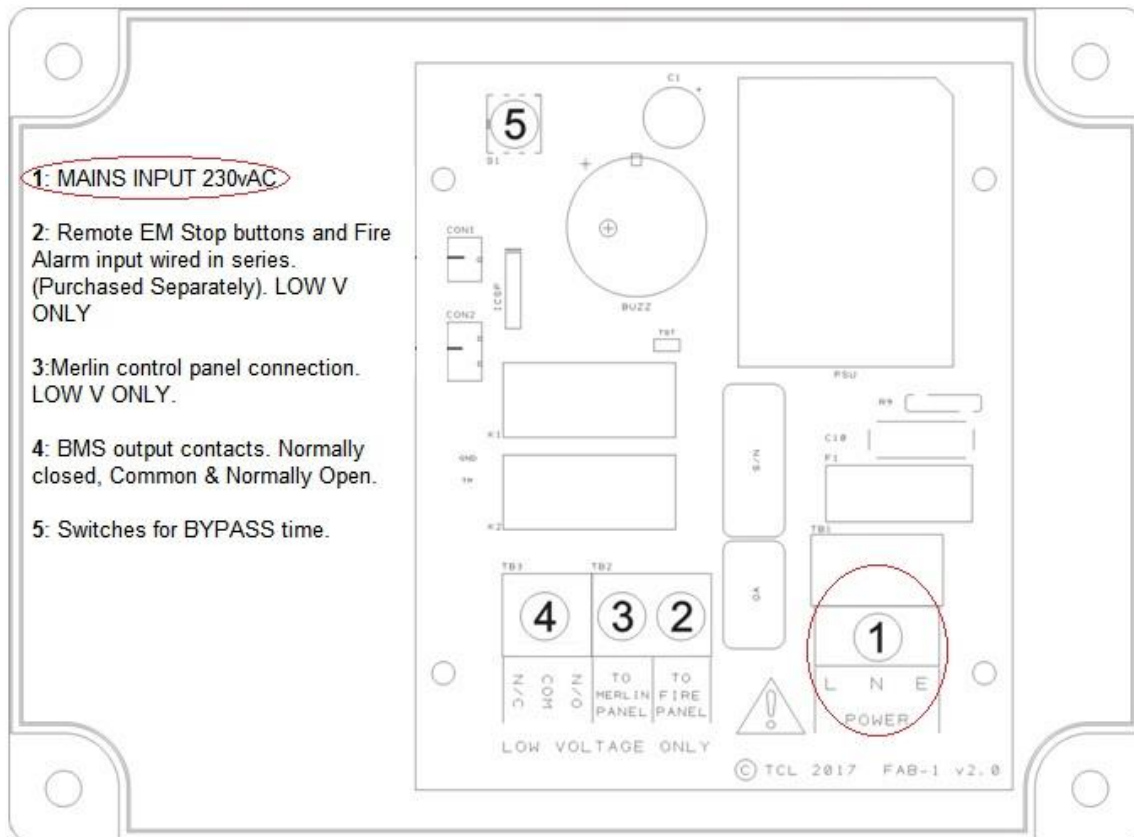
When the system is connected to the Mains Supply, the LED of the S&S Northern logo will illuminate **RED**.

### Bypass On

This LED will illuminate **GREEN** when the key switch on the fascia of the panel has been turned to **[ON]**.

Five minutes before the timeout facility is about to end, the **[Bypass On]** LED will start to flash. When the bypass time has finished the LED will turn off.

## 5 FAB-1 Circuit Board Diagram





## 6 Manufacturer's Warranty

### 3 Year Limited Warranty

**Warranty coverage:** The manufacturer warrants to the original consumer purchaser, that this product will be free of defects in material and workmanship for a period of three (3) years from date of purchase. The manufacturer's liability hereunder is limited to replacement of the product with repaired product at the discretion of the manufacture. This warranty is void if the product has been damaged by accident, unreasonable use, neglect, tampering or other causes not arising from defects in material or workmanship. This warranty extends to the original consumer purchaser of the product only.

**Warranty disclaimers:** Any implied warranties arising out of this sale, including but not limited to the implied warranties of description, merchantability and intended operational purpose, are limited in duration to the above warranty period. In no event shall the manufacturer be liable for loss of use of this product or for any indirect, special, incidental or consequential damages, or costs, or expenses incurred by the consumer or any other user of this product, whether due to a breach of contract, negligence, strict liability in tort or otherwise. The manufacturer shall have no liability for any personal injury, property damage or any special, incidental, contingent or consequential damage of any kind resulting from gas leakage, fire or explosion. This warranty does not affect your statutory rights.

**Warranty Performance:** During the above warranty period, your product will be replaced with a comparable product if the defective product is returned together with proof of purchase date. The replacement product will be in warranty for the remainder of the original warranty period or for six months – whichever is the greatest.

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