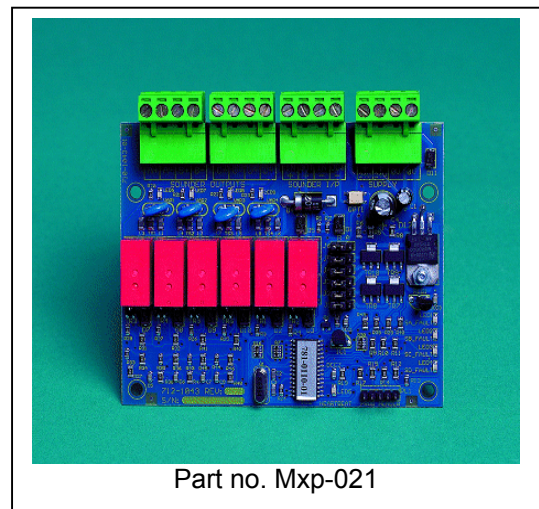


## 4 Way Sounder Splitter



Part no. Mxp-021-BXP



Part no. Mxp-021

### Features

The Advanced Sounder Circuit Splitter is a peripheral unit that takes a standard sounder circuit from either a control panel or other panel based sounder circuit controller and multiplies it to provide up to 4 monitored outputs. In operation these additional outputs follow the output they are connected to. The circuits are fully monitored for open and short circuit and will take an independent supply to provide up to 1Amp per circuit.

The unit is available in 2 formats: -

**Mxp-021** a peripheral card usually factory fitted into an **Mx-4000** multi loop panel.

**Mxp-021-BXP** is a Splitter and 4 Amp EN54-4 power supply mounted in a metal enclosure. This unit provides up to 1Amp output on each of the ancillary circuits.

**Models, Sales Order Parts:****Part No:****Mxp-021:** 4 Way Sounder Splitter Card**Mxp-021F:** 4 Way Sounder Splitter Card fitted within an Mx-4200 / Mx-4400 or Mx-4800 fire alarm control panel.**Mxp-021-BXP:** 4 Way Sounder Splitter Card and 4 Amp EN54 power supply mounted in metal enclosure.**Applications / Limitations:**

The 4-way sounder splitter card can be supplied as a card only for mounting in a customers / OEM enclosure or supplied fitted within an Mx-4200 / Mx-4400 / Mx-4800 enclosure when specified at the time of order. When supplied fitted in this format, the load at the outputs from the splitter will be limited to the sounder output loading of the input circuit from which it is driven.

For applications where additional output drive current is required, the Mxp-021-BXP should be specified. This will provide 4 monitored 1 Amp rated sounder circuits in addition to the 1 Amp sounder circuit output capability of the Mx-4000 control panel.

All 4 outputs on the sounder splitter card will operate in tandem and follow the output of the sounder circuit to which the card is connected.

**Compatibility:**

The Mxp-021 is compatible with all Mx-4000 control panels.

Item	Specification Details	
Sounder Input	"IN+" and "IN-" "OUT+" and "OUT-"	Connect to the Input trigger (panel sounder output circuit). Connect to the remainder of the input sounder circuit or terminate with a 10KΩ EOL resistor.
On board indication	4 "red" sounder LED's. 4 "yellow" Fault LED's.	LED's illuminate when the output is triggered. LED's illuminate if the corresponding sounder circuit has a short or open circuit fault.
Formats	<b>1A Splitter</b>	<b>4A Splitter</b>
Sounder Outputs	4 monitored sounder circuits (Total maximum load across all circuits = 1A)	4 x 1A rated monitored sounder circuits
Power Supply (Sounder outputs)	Sounder output supply provided by the input (trigger) sounder circuit.	Sounder output supply provided by an external 24Vdc 4A supply.
Power Supply (Card)	Quiescent: 25mA Driving: 50mA	Quiescent: 30mA Driving: 55mA
Dimensions (H x W x D)	PCB only: (Mxp-021) 95mm x 105mm x 18mm Enclosure: (Mxp-021-BXP) 320mm x 345mm x 85mm	
As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice		

# 4 Way Sounder Splitter

## Configuration

The Mxp-021 will operate in one of two modes:

- a) 1A splitter
- b) 4A splitter

The mode is selectable via the on-board jumper switches (J1-J6).

### a) 1A Sounder Splitter

All six jumpers (J1-J6) must be set to position 'B' as shown below.

The card still requires a 24V supply, which can be derived from the panel's 24V auxiliary supply or from another external supply. The supply to the 4 additional sounder output circuits is derived from the input (trigger) sounder circuit.

**Note:** The total maximum sounder load (input circuit + 4 output circuits) is determined by the input circuit maximum load current.

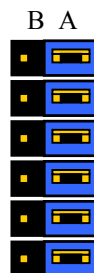


Jumper configuration for the 1A splitter (see wiring configuration diagram)

### b) 4A Sounder Splitter

Set all six jumpers (J1-J6) to position 'A' as shown below.

The 24V supply is derived from an external supply. This supply must be rated at 100W (min) if each of the additional sounders is to drive up to a 1A load.

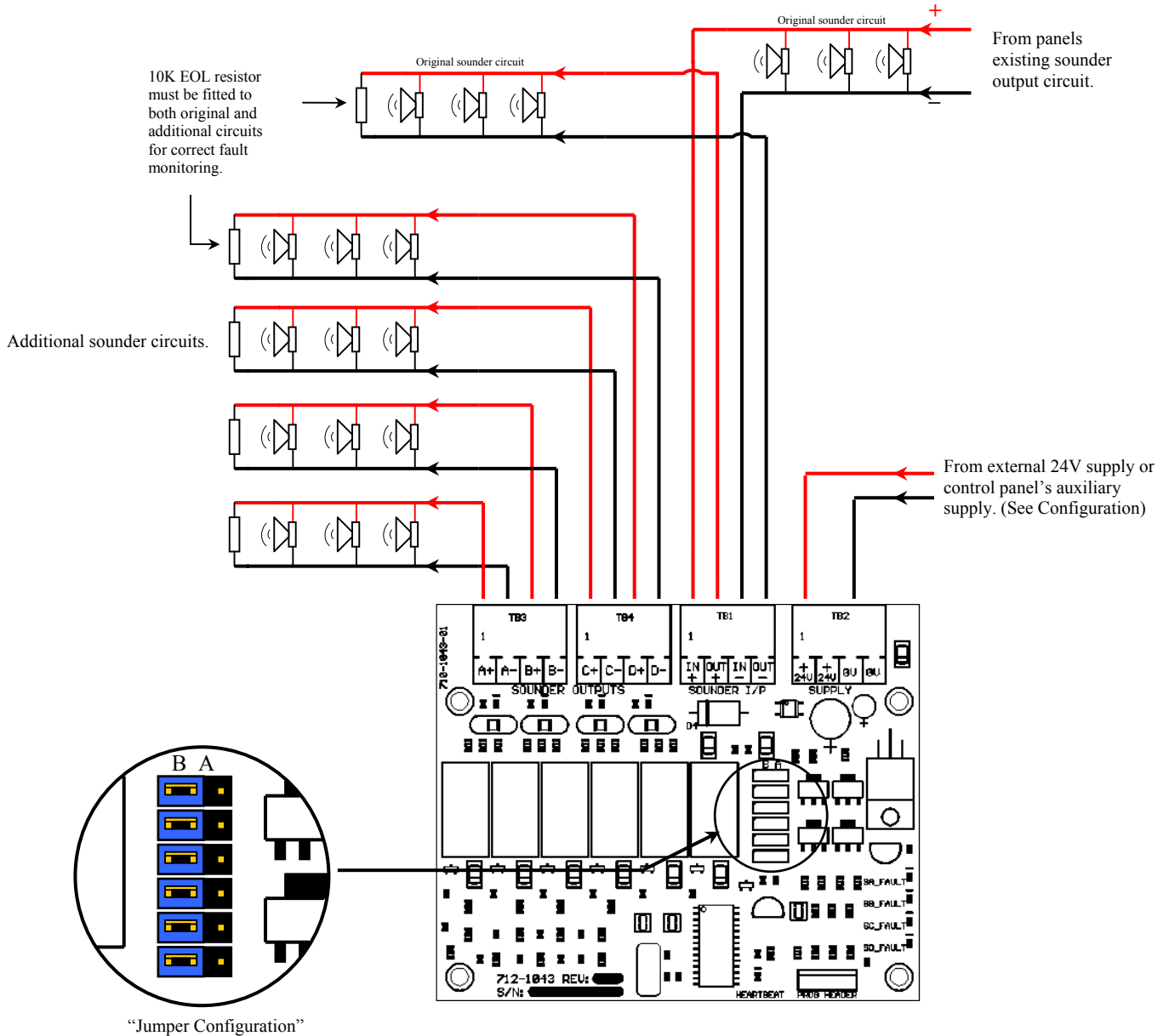


Jumper configuration for the 4A splitter (see wiring configuration diagram)

Please note any jumper configuration other than shown in a) or b) above, may result in a fault being indicated by the panel.

## Wiring Configuration

Both the 1A sounder splitter and the 4A sounder splitter are connected as shown in the wiring configuration diagram below. The diagram shows a 'typical' application. Note that a 10KΩ EOL resistor must be fitted to the end of each sounder line to maintain correct fault monitoring.



Mxp-021 Wiring Configuration.

## Fault Indication

Open circuit and short circuit fault indication is provided by means of on-board yellow LED's for each of the additional sounder circuits. On-board relays provide full fault monitoring of the additional sounder circuits back to the panel.

Note: If the sounder is connected to an original sounder circuit whilst no power is supplied to the card, a short circuit condition will be indicated back at the panel. This fault condition will clear once power to the card is established.