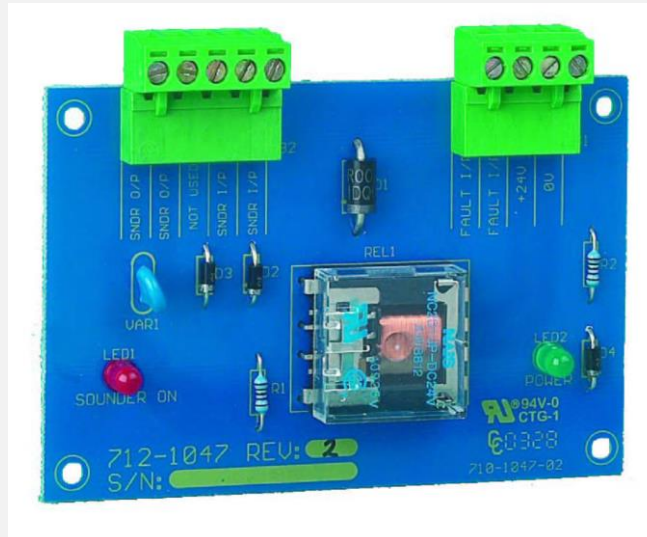


Sounder Booster

MxPro⁴



Features

The Advanced 4A Sounder Booster (Mxp-026) is a peripheral unit that takes a standard sounder circuit from either a control panel or other panel based sounder circuit controller and provides increased sounder output capability.

This boosted output is fully monitored for open and short circuits and will take an independent supply to provide up to 4 Amps of sounder drive current to a single circuit.

On board indication via 2 LED indicators located on the booster PCB enable the user to view when an output has been triggered and when an external power supply has been connected

Features

The unit is available in 2 formats:

- The Mxp-026 is a booster card only for mounting in a customer's / OEM enclosure or within an MxPro 4 multi-loop panel.
- The Mxp-026-BXP is a booster card and a 5 Amp EN54-4 power supply mounted together in a metal enclosure.

Specifications & Ordering:

Models, Sales Order Parts:

- Mxp-026-BXP** : 4A Sounder Card Boxed with 5A PSU
Mxp-026 : 4A Sounder Booster Card (Requires a minimum 4 Amp power supply and enclosure)

Applications / Limitations:

The sounder booster is used where a single sounder output circuit of up to 4 Amps is required. Each of the panel's sounder outputs can only monitor a single circuit. The unit must therefore be situated at the end of the panel's sounder output circuit to maintain correct fault monitoring. 'Daisy-chaining' is not recommended, as this would require the monitoring of more than one circuit. See 'wiring configuration'

Compatibility:

The Mxp-026 is compatible with all MxPro 4 control panels.

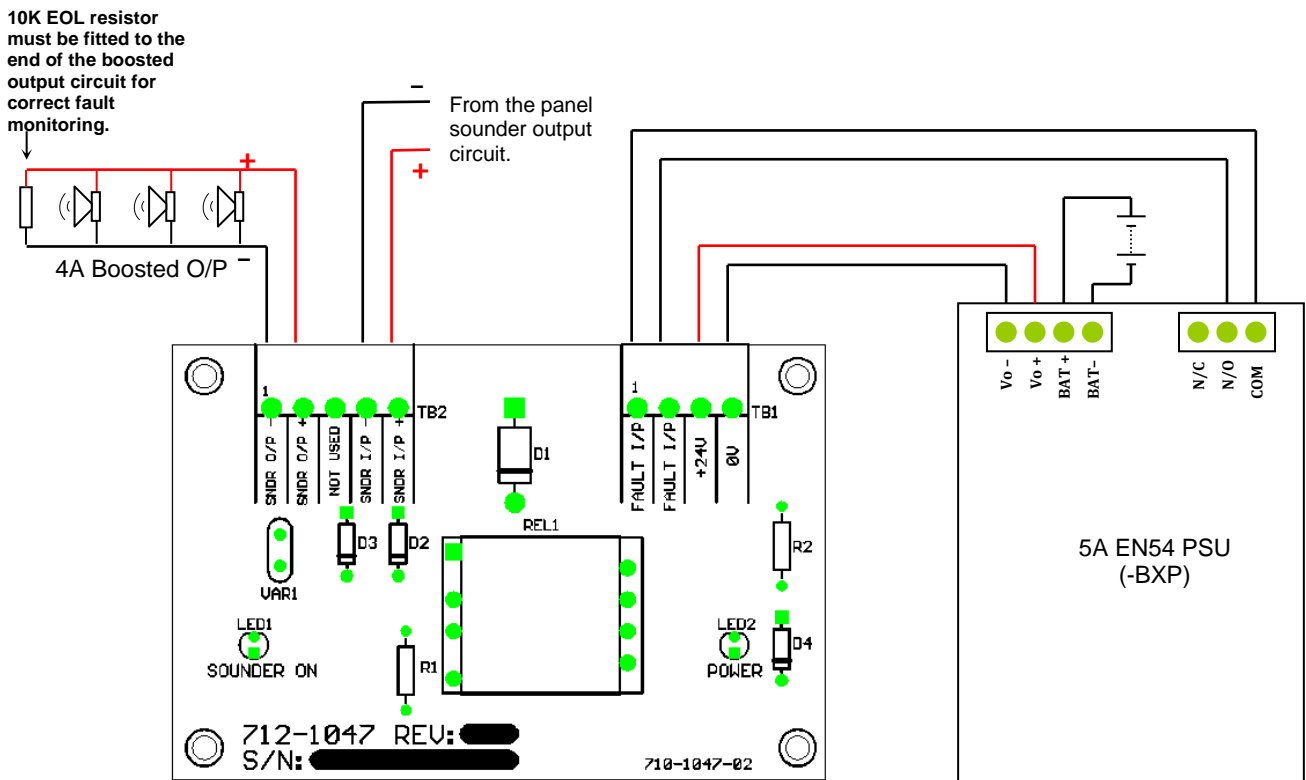
Item	Specification Details
Sounder Input	"SNDR I/P+" and "SNDR I/P -" Connect to the Input trigger (panel sounder output circuit).
Sounder Outputs	1 monitored sounder circuit (Total maximum load = 4A)
On board indication	1 "red" sounder LED. LED illuminates when the output is triggered. 1 "green" power LED. LED illuminates when an external supply is connected.
Power Supply (-BXP)	Input: 200-240V AC 50Hz Output: 5 Amp EN54 Power Supply. Nominal output voltage = 27.3VDC
Current Consumption (Derived from sounder circuit I/P)	Quiescent: 0mA Driving: 17mA
Dimensions (H x W x D)	PCB only: 70mm x 105mm x 18mm Enclosure: 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

1 WIRING CONFIGURATION3
 2 FAULT INDICATION4

1 Wiring Configuration

The diagram below shows a ‘typical’ application for the 4A sounder booster. Note that a 10KΩ EOL resistor must be fitted to the end of the boosted sounder output circuit to maintain correct fault monitoring.



Mxp-026 Wiring Configuration.

Note. PSU ‘Failsafe’ Operation

The EN54 PSU shall be fitted with a ‘Fault’ relay that is energised during normal operation and de-energised for any fault condition. The ‘FAULT I/P’ connections on the sounder booster card should be connected to the ‘COM’ and ‘N/O’ connections of the PSU as shown above. The table below indicates the state of the relay for all conditions.

	PSU ‘ON’ without Fault (Energised)	PSU ‘ON’ with Fault (De-energised)	PSU ‘OFF’ (De-energised)
Relay Contacts Com - N/O	Closed	Open	Open
Relay Contacts Com - N/C	Open	Closed	Closed

2 Fault Indication

Any open circuit condition between the 'FAULT I/P' terminals will result in the panel indicating a 'Sounder Open Circuit' fault. When the 'FAULT I/P' terminals are connected to the PSU's 'Fault' relay, the panel will indicate a 'Sounder Open Circuit' fault should the PSU develop any fault.

Normal sounder circuit open circuit and short circuit monitoring is applicable on the boosted sounder output circuit.

USER NOTES

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