

Technical Bulletin

K3700 Multi-Area Extinguishing Panels

TB 1015

Adding more 1st Stage Sounder Circuits

The Kentec K3700 series control panels provide a flexible approach to multiple area extinguishing protection. The range of panels comprise of two main sections - detection and extinguishing control. The detection section comprises of 4 to 12 conventional detection zones, using the Kentec K3000 conventional panel components. The main controller PCB has two sounder circuits fitted, each rated at 1 Amp. These sounder circuits will operate for any fire activation from any zone and are generally used as common first stage sounder outputs.

It is sometimes required to have individual first stage sounders for each extinguishing area. This document gives details of a retrospective modification to the panel to achieve this mode of operation.

Upgrade details

Fitting first stage alarm outputs for each area is quite a simple matter and can be achieved by using modified SB.04/4 plug in sounder boards. These items may be ordered from Kentec Electronics using part number S256 and are modified "on site" using the procedure given in this bulletin.

SB.04 Installation

The S256 SB.04 board has four sounder outputs, which may be configured to provide zonal, common or 2-stage sounder outputs for each 4-zone module in the detection section of the control panel. The SB.04 board is supplied with four mounting pillars and a connecting socket and is fitted in the PCB locations given in table 1.

Panel Number	Number of Zones	Number of Areas	Zones 1 to 4 (Con.05 - S250)	Zones 5 to 8 (K4ZM - S251S)	Zones 5 to 12 (K8ZM - S252S)
K3700	4	1	X5	---	---
K3705	4	2	X5	---	---
K3710	8	1	X5	X2	---
K3715	8	2	X5	X2	---
K3720	8	3	X5	X2	---
K3725	8	4	X5	X2	---
K3730	12	1	X5	---	X5 (Z5-8) & X6 (Z9-12)
K3735	12	2	X5	---	X5 (Z5-8) & X6 (Z9-12)
K3740	12	3	X5	---	X5 (Z5-8) & X6 (Z9-12)
K3745	12	4	X5	---	X5 (Z5-8) & X6 (Z9-12)
K3750	12	5	X5	---	X5 (Z5-8) & X6 (Z9-12)
K3755	12	6	X5	---	X5 (Z5-8) & X6 (Z9-12)

Table 1- SB.04/4 connection locations

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The SB.04 may be mounted onto the CON.05, K4ZMS or K8ZMS connector(s) by carefully aligning the connecting socket with the pin header on the host board and pushing the pillars firmly into the locating holes.

IMPORTANT

Boards should not be plugged in or unplugged unless both mains and battery power have been removed. Failure to do this is likely to result in damage to both boards.

The connecting socket and fixing pillar locations should be carefully checked before power is re-applied to the panel.

SB04 Power Requirements

Each SB04 sounder circuit has a 500mA fuse to protect the output. However, consideration must be given to the control panels' power supply when fitting extra sounder circuits.

Extra terminals are provided to connect additional 24-volt power to each SB.04 board, if necessary. No more than two SB.04 boards should be fitted without wiring to these terminals.

The 24-volt source can be from the control panels' internal supply, if the total sounder load is within the capacity of the supply. Alternatively an additional (external) power supply may be used if the sounder load is beyond the capacity of the panels' power supply.

The power supply inputs to the SB.04 board are protected by diodes, thus preventing any "commoning" of power supplies.

S256 - SB04 Modification

Each SB.04 sounder board provides two monitored first stage alarm outputs per area. However, the S256 SB.04 board will require a minor modification to achieve this.

The modification consists of linking pins 1&2 and pins 3&4 on connector X1 as shown in Fig 1. The normal technique is to apply additional solder to the pins until the appropriate pins are bridged.

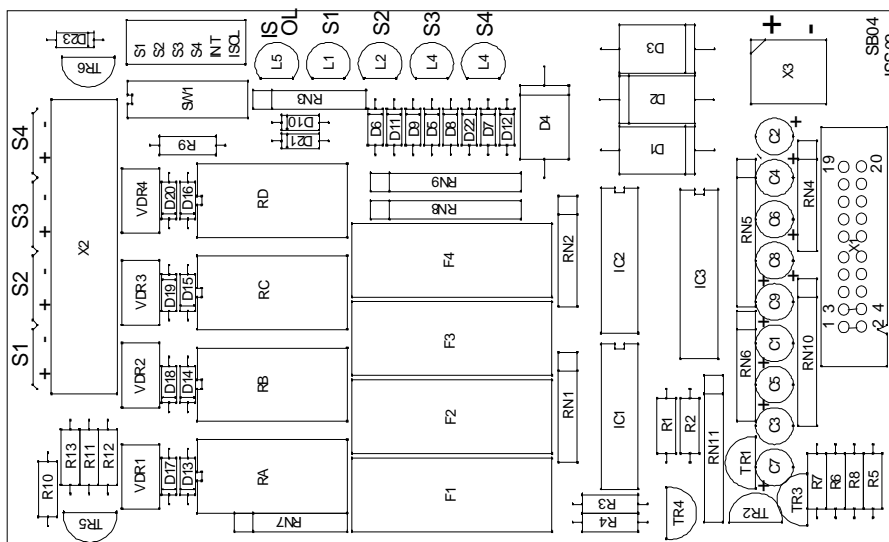


Fig 1 - SB.04 solder bridge positions