

PERTRONIC INDUSTRIES LTD

DATASHEET

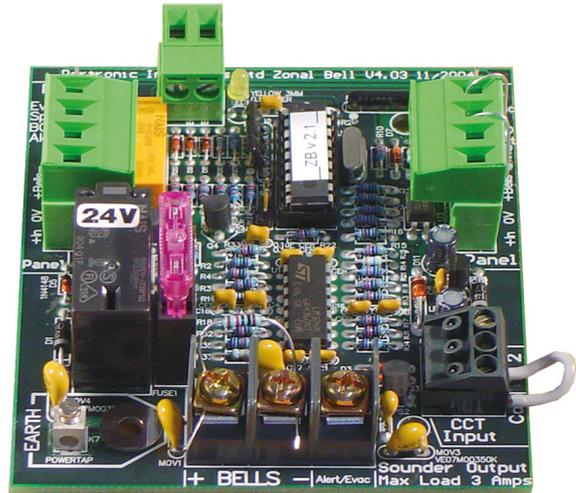
Zonal Sounder Board (Bell Monitor Board)



Overview

The Zonal Bell Monitor Board (ZMB24V) allows independent activation of one or more supervised bell circuits, for either evacuation or alert tones.

Single-way and four-way bell driver boards are available. Other combinations may be constructed by connecting the externally accessible bussed control signals.

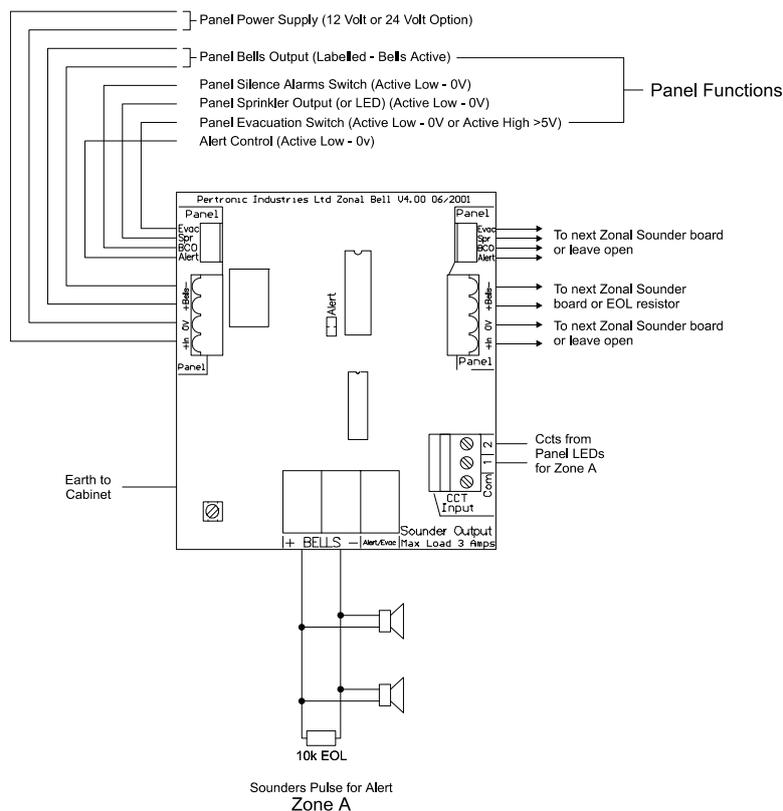


Pertronic Zonal Sounder Board

Specification

Operating Voltage		12 or 24 Vdc	
Quiescent Current (Sounder Circuit Inactive)	1-Way Board	< 35 mA	Add up to 3 A per sounder circuit when active
	4-Way Board	< 140 mA	
Dimensions (L x W x D mm)	1-Way Board	95 x 85 x 30	
	4-Way Board	320 x 96 x 30	
Operating Temperature		0 to 40 °C	
Operating Humidity		10 to 90% RH (non-condensing)	
Weight		100 g	

Connection Diagram: Single Unit



Bussed Control Signals:

Panel Bells

- » Connected to the panel's monitored Bell output
- » Action depends on the state of other control signals
- » Active when the panel bell circuit is operated

Evacuation

- » Usually connected to the panel Evacuation switch
- » Always activates the Sounder Circuit
- » Active when pulled low (0 V), or taken high (≥ 5 V)

Sprinkler

- » Follows the panel sprinkler input
- » Activates the Sounder Circuit if Panel Bells is active
- » Active when pulled low (0 V)

Bell Silence

- » Disables the Sounder Circuit
- » Is overridden by Evacuation or Sprinkler
- » Active when pulled low (0 V)

Alert Control

- » Used to generate a global alert signal
- » Action depends on the state of other control signals
- » Active when pulled low (0 V)

Independent Control Signals:

Circuit 1,2

- » Activated by zones or one member of a group of detectors or Call-Points being in alarm
- » Action depends on the state of other control signals
- » Active when pulled low (0 V)

Alert Link

- » When inserted, disables the Alert Control signal - the global Alert state is disabled

Output Functions:

Sounder Circuit

- » 3 A (fused) drive capability, 12 Vdc or 24 Vdc
- » Monitored with 10 k Ω , 0,5 W, 5 % EOL Resistor (single spur)
- » Evacuation: Continual activation
- » Alert: 4 seconds ON, 12 seconds OFF

- » The Sounder Circuit is monitored for a 10 k Ω EOL resistor by applying reverse supply voltage to the circuit
- » Defects in the Sounder circuit are sent to the panel by unbalancing the Panel Bells circuit

Evac/Alert Control

- » 'Third wire' for sounder Evacuation or Alert control
- » Pulled low (0V) for Alert

LED Indication

- » ON steady Sounder Circuit relay ON
- » Flashing Latched fault ON: Sounder Circuit, Low battery or Bell circuit fault

Bells Defect

