

PERTRONIC INDUSTRIES LTD

DATASHEET

Zonal Sounder Board (Bell Monitor Board)

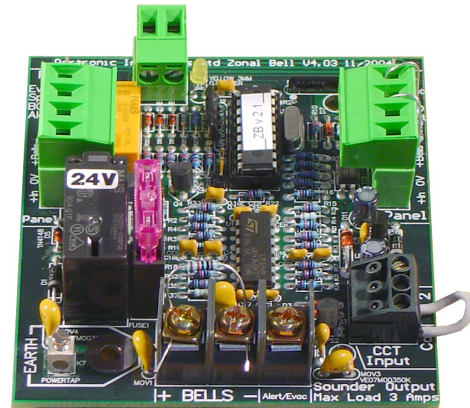


Overview

The Pertronic Zonal Sounder Board (ZMB24V) provides an independently activated, supervised, 3 amp sounder circuit for driving conventional DC-operated alarm (warning system) devices (including strobes).

The sounder circuit may be activated continuously (“Evacuate”) or pulsed (“alert”).

Multiple Zonal Sounder Boards may be connected in a daisy-chain configuration to create multiple sounder circuits. Each sounder output may drive up to three spurs.



Pertronic Zonal Sounder Board (ZMB24V)

Output Functions

Sounder circuit

- 3 A (fused) drive capability
- Supervised for short and open circuit faults
- Evacuation: Continual activation
- Alert: 4 seconds ON, 12 seconds OFF

Evac/Alert Control

- ‘Third wire’ for circuit Evacuation or alert control
- Pulled low (0V) for alert

Independent Control Signals

Cct1, Cct2

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

Bussed Control Signals

Panel Bells

- Connects the fire panel’s supervised bell output
- Action depends on the state of other control signals
- Active when the panel bell circuit is operated

Evacuation

- Usually connected to the fire panel evacuation switch
- Always activates the sounder circuit
- Active when pulled low (0 V), or taken high (> 5 V)

Sprinkler

- Follows the fire panel sprinkler input
- Activates the sounder circuit if Panel Bells is active
- Active when pulled low (0 V)

Bells Fault (Defect)

- The sounder circuit is supervised by applying reverse supply voltage to the circuit
- Faults in the sounder circuit are reported to the fire panel by unbalancing the fire panel bells circuit

LED Indication

- On: Steady Sounder circuit relay on
- On: Flashing Latched fault: Sounder circuit, low battery or bell circuit

Alert Link

- When inserted, disables the alert control signal for the associated sounder circuit.

Bell Silence

- Disables the sounder circuit
- Overridden by Evacuation or Sprinkler signals
- Active when pulled low (0 V)

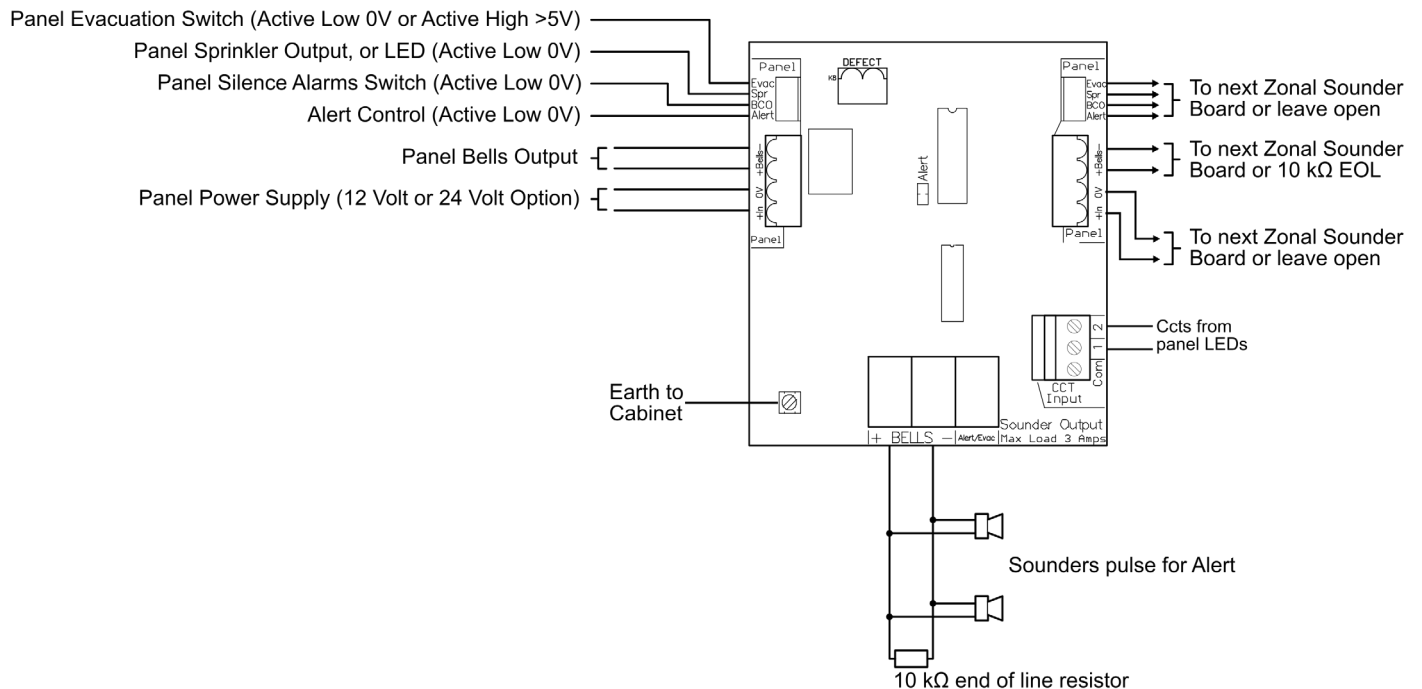
Alert Control

- Triggers a pulsed signal
- Action depends on the state of other control signals
- Active when pulled low (0 V)

Specification

Operating Voltage		24 V dc nominal	
Quiescent Current		< 35 mA	Add up to 3 amps per sounder circuit when active
Sounder Circuit Current		Up to 3 amps	
Sounder Circuit End of Line Resistor	One Spur	10 kΩ	End of line resistors should be 5% tolerance or better. We recommend 0.5 watt leaded resistors.
	Two Spurs	22 kΩ	
	Three Spurs	33 kΩ	
Fault (Defect) Relay Output		2 amp, 30 volt dc	
Dimensions (L x W x D)		95 x 85 x 30 mm	
Operating Temperature		0 to 40 °C	
Operating Humidity		10 to 85% RH (non-condensing)	
Weight		100 g	

Connections



Ordering Information

Product Code	Description
ZMB24V	Zone Bell Monitor Board 24V

Please refer to "Installation / Operating Instructions: Zonal Sounder Driver" for more information about the Pertronic Zonal Sounder Board.

The information in this document must not be treated as partial or complete instructions for the design, construction, installation, commissioning, or maintenance of fire detection, fire alarm, or building evacuation systems. Fire and evacuation systems must be designed and installed by properly qualified persons, in accordance with all regulatory requirements.

Unless explicitly stated otherwise, this document provides typical specifications and nominal dimensions. Actual product performance and dimensions may vary.

All information in this document is subject to change. Please consult Pertronic Industries or visit our web site for up to date information.

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