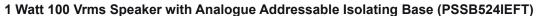
PERTRONIC INDUSTRIES LTD

DATASHEET

1 Watt 100 Vrms Speaker with Analogue Addressable Base (PSSB501)





Overview

The Pertronic PSSB501 and PSSB524IEFT are 100V Line Speakers (1.1 W max) which integrate a 1 W speaker, line transformer and dc blocking capacitor. When used in conjunction with the Pertronic 20W and 50W 100V line Amplifiers they provide a cost effective solution for speaker based building evacuation systems required to comply with NZS 4512:2010.

Pertronic PSSB524IEFT also features a short-circuit isolator. The PSSB524IEFT is designed to support a System Sensor B524IEFT Analogue Addressable base and detector.



Features

- » Plug-in base for an analogue addressable detector with speaker
- » Mounted in a plastic acoustic enclosure
- The PSSB501 and PSSB524IEFT have mini-jumpers for selecting one of 0.2 W, 0.7 W, or 1.1 W power outputs.
- » At 1.1 W the speakers can reproduce the 'Evacuation' tone at a sound pressure level of 98 dBA at 1 metre, when used with Pertronic 100 Vrms amplifiers



Pertronic 1 Watt 100 V Line Speaker

Specifications

		PSSB501	PSSB524IEFT
Height Below Ceiling	Recessed	31 mm	38 mm
	With Surface Mount Extension Cover	66 mm	73 mm
Height Above Ceiling (when recessed)		35 mm	
Diameter of Mounting Flange		122 mm	
Frequency Response		400 Hz – 10 kHz	
DC Blocking Capacitor		2.2 μF Bipolar	
Maximum Line Voltage		100 Vrms	
Colour		White	

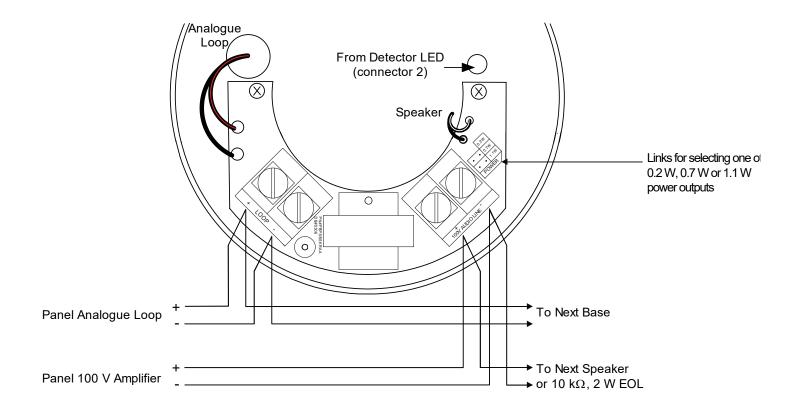
Sound Pressure Level at 1.1 W, 1 m (peak ± 3 dB)

Power Tap	0.2 W	0.7 W	1.1 W
Evacuation	77.8 dBA	98.7 dBA	98.9 dBA
Alert	64 dBA	83.5 dBA	85.3 dBA

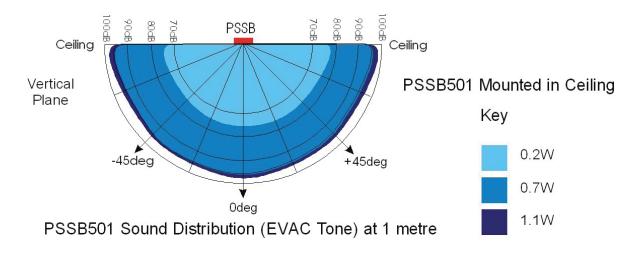
Operation

- » The PSSB501 and PSSB524IEFT a have separate input terminals for the analogue addressable loop, and the 100 Vrms audio line
- » The PSSB524IEFT provides terminals for LED output connections
- » The Loop '+' and '-' terminals are connected to the corresponding PSSB501 or PSSB524IEFT Loop '+' and '-' terminals
- » Similarly, the amplifier's line terminals '+' and '-' are connected to the corresponding PSSB501 or PSSB524IEFT Line '+' and '-' terminals
- » If the amplifier is not active, the 100 Vrms line is monitored by the application of an inverted dc voltage to the PSSB501 or PSSB524IEFT Line '+' terminal
- The PSSB501 consumes no power in monitor mode.
- » A 10 k Ω , 2 W end of line (EOL) resistor is placed at the last PSSB501 or PSSB524IEFT
- When the amplifier is active, the monitoring dc voltage is removed from the line output and the 100 Vrms signal is applied, causing the PSSB501 or PSSB524IEFT to operate
- » If the loop develops a short-circuit, the PSSB524IEFT isolator base opens the circuit allowing the loop analogue loop to operate under fault conditions and automatically restore when the fault is removed

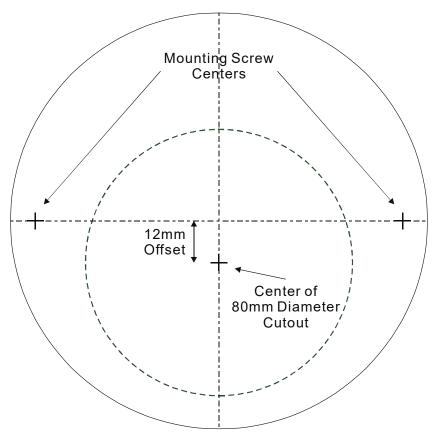
Connection Diagram



Sound Distribution Diagram



PSSB Drilling Template



Ordering Information & Notes

Product Code	Description	
PSSB501	Pertronic Speaker with B501 AA Base	
PSSB524IEFT	Pertronic Speaker with B524IEFT Isolator Base	

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

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