PERTRONIC INDUSTRIES LTD PSSB B501 100V SPEAKER INSTALLATION NOTE



Overview

The **PSSB B501** is a 100V line (1.1W max) speaker and line transformer mounted in an aesthetically pleasing acoustic enclosure. The enclosure is designed to support a System Sensor B501 Analogue addressable base and detector.

When used in conjunction with the Pertronic 20W and 50W 100V line amplifiers, it provides a cost effective solution for speaker-based building evacuation systems that must comply with the NZS4512: 2003 and AS2220 standards.

The **PSSB B501** has Links for selecting the 0.2W, the 0.7W, or the1.1W power outputs. At 1.1W and with Pertronic's 100V amplifiers, the **PSSB B501** can reproduce the evacuation tone at a sound pressure level of 97dBA.

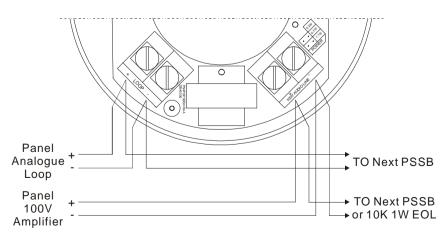
Operation

The panel loop output and amplifier line output are connected to the *PSSB B501* Speaker as shown below. Terminals are provided for both analogue loop and 100V line connections. The Loop '+' and '-' terminals are connected to the corresponding PSSB B501 Loop '+' and '-' terminals. Similarly, the amplifier's line terminals '+' and '-' are connected to the corresponding *PSSB B501* Line '+' and '-' terminals.

If the amplifier is not active, the 100V line is monitored by the application of a negative dc voltage to the *PSSB B501* Line '+' terminal. The *PSSB B501* consumes no power in monitor mode. A 10K 1W monitor resistor is placed at the last *PSSB B501*.

When the Amplifier is active, the monitoring dc is removed from the line output, and the 100Vrms signal is applied, causing the *PSSB B501* to operate.

Connection Diagram



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Specification

Dimensions: 117mm (height) x 74mm (width), 12mm (depth above flush-box)

Designed to fit into a standard flush-box fitting.

Colour Options: White.

Sound Level Output: Sound pressure level (peak \pm 3dB)

 Power tap Selected:
 0.2W
 0.7W
 1.1W

 Evacuation:
 75dBA
 96dBA
 97dBA

 Alert:
 65dBA
 83dBA
 85dBA

Frequency Response: 400Hz – 10Khz

Input Capacitor: 2.2uF 100V RMS Bi Polar Electrolytic

Maximum Line Voltage: 100Vrms

PSSB B501 Drilling Template

