

1 Watt, 100VRMS Speaker

with Analogue Addressable Base (PSSB501)

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QUALITY ASSURED COMPANY ISO 9001: 2008

International Standards Certifications QAC/R64/0012

Product Overview:

The **Pertronic PSSB501** Speaker is one of a range of 100VRMS Line speakers (1.1W max) manufactured by Pertronic Industries Ltd:

- ▶ Used in conjunction with Pertronic 20W and 50W, 100VRMS Line Amplifiers, the **PSSB501** provides a cost effective solution for speaker-based building evacuation systems that must comply with the NZS4512:2010/NZS4512:2003 and AS2220 Standards.
- Integrates a 1W speaker; tapped line transformer and DC blocking capacitor mounted in an aesthetically pleasing acoustic enclosure, which includes a System Sensor B501 Analogue Addressable detector base.
- The PSSB501 has mini-jumpers for selecting one of 0.2W, 0.7W, or 1.1W power outputs.
- At 1.1W the PSSB501 can reproduce the 'Evacuation' tone at a sound pressure level of 98dBA at 1 metre, when used with Pertronic 100VRMS amplifiers

Operation:

- ▶ The panel loop output and amplifier line output are connected to the PSSB501 Speaker as shown in Figure 1.
- Terminals are provided for both analogue loop and 100VRMS line connections.
- ➤ The Loop '+' and '-' terminals are connected to the corresponding **PSSB501** Loop '+' and '-' terminals.
- Similarly, the amplifier's line terminals '+' and '-' are connected to the corresponding PSSB501 Line '+' and '-' terminals.
- If the amplifier is not active, the 100VRMS line is monitored by the application of an inverted DC voltage to the **PSSB501** Line '+' terminal.
- The PSSB501 consumes no power in monitor mode.
- A 10kΩ, 1W monitor resistor is placed at the last PSSB501.
- When the Amplifier is active, the monitoring DC voltage is removed from the line output and the 100VRMS signal is applied, causing the PSSB501 to operate.

Specifications:

Dimensions: When recessed:

Height below ceiling 31mm (including B501 base)

Height above ceiling 35mm
With Surface Mount Extension Cover
Diameter of Mounting Flange 122mm.

Colour Options: White.

Sound Level Output: Sound pressure level at 1.1W, 1m (peak \pm 3dB)

 Power Tap selected:
 0.2W
 0.7W
 1.1W

 Evacuation:
 77.8dBA
 98.7dBA
 98.9dBA

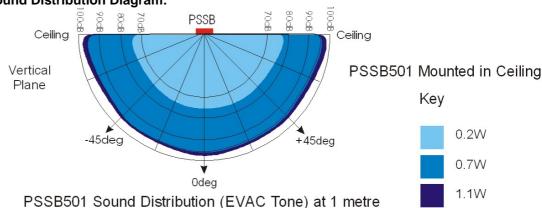
 Alert:
 64dBA
 83.5dBA
 85.3dBA

Frequency Response: 400Hz – 10kHz

Input Capacitor: 2µ2F, 100V Bipolar Electrolytic ELCO

Maximum Line Voltage: 100VRMS

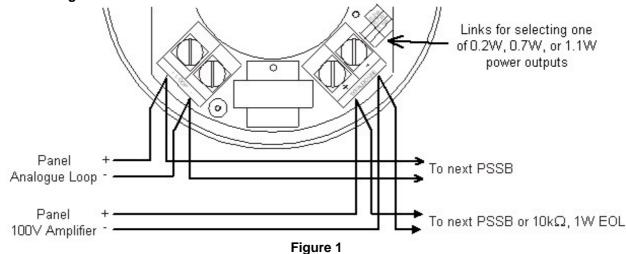
Sound Distribution Diagram:



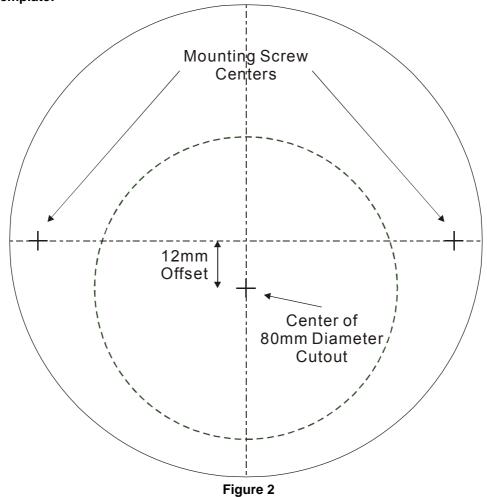




Connection Diagram:



PSSB Drilling Template:



Product Codes:

NZS Code	Description	NZFPA Listing No
PSSB501	Pertronic Speaker with B501 Analogue Base	PI/641
PSSB524IEFT	Pertronic Speaker with B524IEFT Isolator Base	PI/641
PSS1-R	Pertronic Sounder Speaker: 1W Flush - Red	PI/641
PSS1-W	Pertronic Sounder Speaker: 1W Flush - White	PI/641

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