1 Watt, 100VRMS Speaker

with Conventional Base

(PSSB401)

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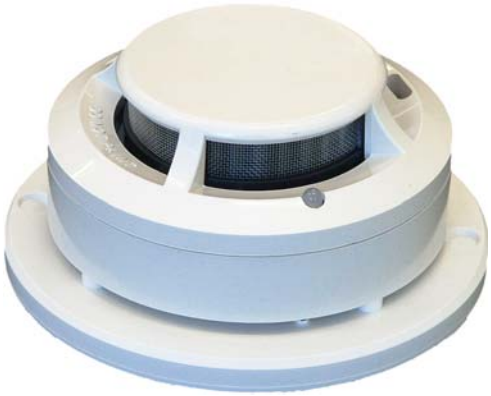
QUALITY ASSURED COMPANY

ISO 9001: 2008

International Standards Certifications QAC/R64/0012

Product Overview:



The **Pertronic PSSB401** 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 **PSSB401** 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 **B401** Analogue Addressable detector base.
- The **PSSB401** has mini-jumpers for selecting one of 0.2W, 0.7W, or 1.1W power outputs.
- At 1.1W the **PSSB401** can reproduce the 'Evacuation' tone at a sound pressure level of 98dBA at 1 metre, when used with Pertronic 100VRMS amplifiers

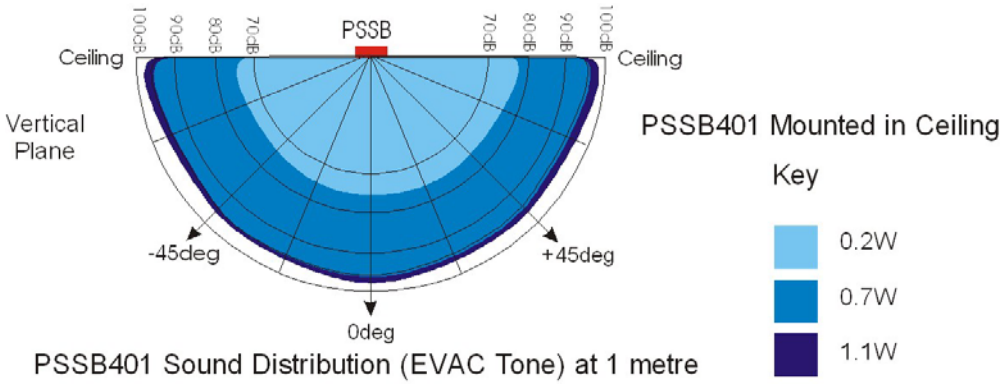
Operation:

- The panel loop output and amplifier line output are connected to the **PSSB401** Speaker as shown in Figure 1.
- Terminals are provided on the speaker PCB for the 100VRMS line connections.
  - The amplifier's line terminals '+' and '-' terminals are connected to the corresponding **PSSB401** Line '+' and '-' terminals.
- Terminals for the circuit connections are on the **B401** base.
  - The Circuit 'IN+' and 'OUT+' lines are connected to **B401 Base** Terminal 4
  - the 'IN M-' line is connected to **B401 Base** Terminal 2
  - the 'OUT M-' line is connected to **B401 Base** Terminal 3..
- If the amplifier is not active, the 100VRMS line is monitored by the application of an inverted DC voltage to the **PSSB401** Line '+' terminal.
- The **PSSB401** consumes no power in monitor mode.
- A 10kΩ, 1W monitor resistor is placed at the last **PSSB401**.
- When the Amplifier is active, the monitoring DC voltage is removed from the line output and the 100VRMS signal is applied, causing the **PSSB401** to operate.

Specifications:

Dimensions:	When recessed:			
	Height below ceiling	31mm (including B401 base)		
	Height above ceiling	35mm		
	With Surface Mount Extension Cover	66mm		
	Diameter of Mounting Flange	122mm.		
Colour Options:	White.			
Sound Level Output:	Sound pressure level at 1.1W, 1m (peak ± 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:



PSSB401 Sound Distribution (EVAC Tone) at 1 metre

Connection Diagram:

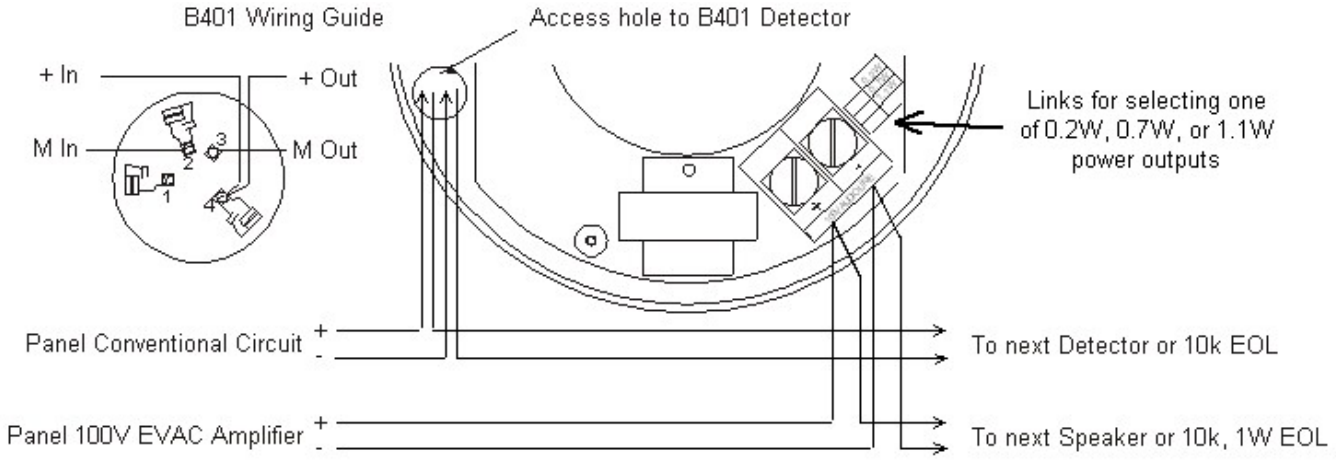


Figure 1

PSSB Drilling Template:

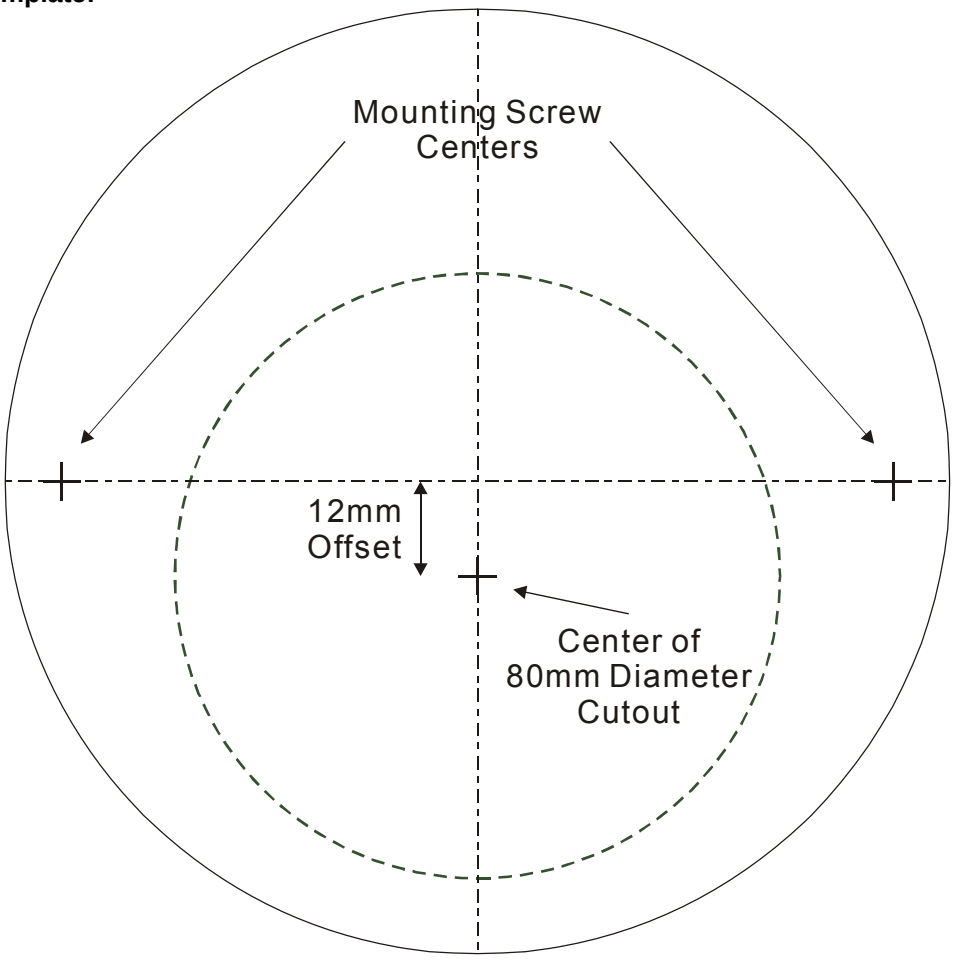


Figure 2

Product Codes:

NZS Code	Description	NZFPA Listing No
PSSB401	Pertronic Speaker with B401 Conventional Base	PI/642
PSS1-R	Pertronic Sounder Speaker: 1W Flush - Red	PI/641
PSS1-W	Pertronic Sounder Speaker: 1W Flush - White	PI/641

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