

PERTRONIC INDUSTRIES LTD

INSTALLATION DATASHEET

100 Volt Line Speaker



Overview

Pertronic PSS1 is a 100 V Line Speaker (1.1 W max) and dc blocking capacitor mounted in a PDL plastic acoustic enclosure. When used in conjunction with the Pertronic 20 W and 50 W 100 V line Amplifiers it provides a cost effective solution for speaker based building evacuation systems that must comply with NZS 4512:2010.

Features

- » Integrates a 1 W speaker, tapped line transformer and dc blocking capacitor within a PDL style flush plate
- » May be mounted in a standard single gang electrical flush-box fitting, and is supplied with a protective plastic cover for installation and building construction use
- » Defaults to 0.2 W with a choice of mini-jumpers to select 0.7 W or 1.1 W power outputs
- » When used with Pertronic 100 Vrms amplifiers, at 1.1 W the PSS1 can reproduce the 'Evacuation' tone at a sound pressure level of 97 dBA at 1 metre
- » Ability to sound a verbal message as specified in NZS 4512:2010, Appendix F

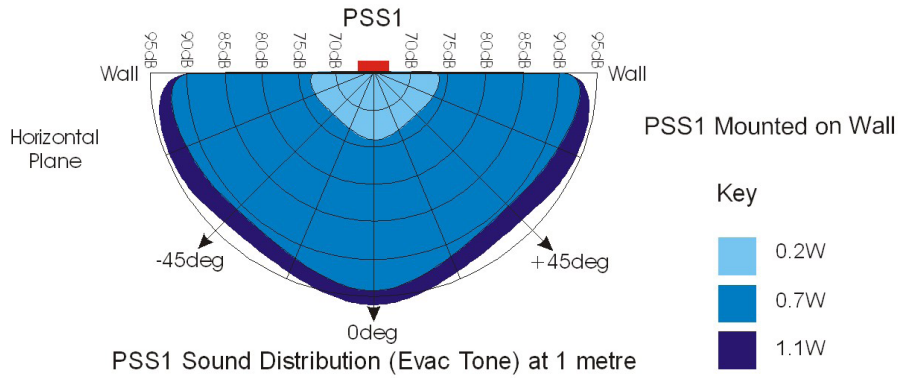


Pertronic PSS1 100 Vrms Speaker (1.1 W max)

Specification

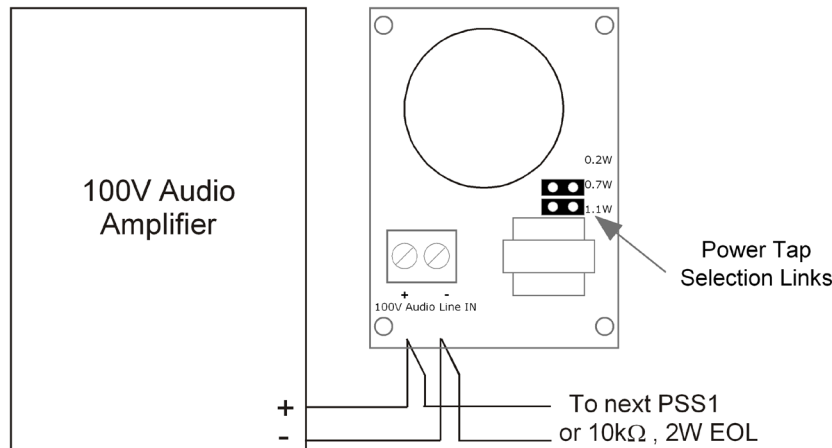
Dimensions (H x W x D mm)		117 x 74 x 30 mm (designed to fit into a standard single flush-box or surface-mount box)
Depth	Above Mounting Surface	12.5 mm
	Below Enclosure	17.5 mm
Colour		Red or White
Frequency Response		400 Hz – 10 kHz
Input Capacitor		2 μ 2F, 100 V Bipolar Electrolytic ELCO
Maximum Line Voltage		100 Vrms

Sound Distribution Diagram



Sound Level Output	Sound Pressure Level at 1.1 W, 1m (peak \pm 3 dB)			
	Power Tap selected	0.2 W	0.7 W	1.1 W
	Evacuation	73 dBA	94 dBA	97 dBA
	Alert	63 dBA	82 dBA	86 dBA

Connection Diagram



Operation

- » The Amplifier Line output is connected to the PSS1 Speaker
- » The Amplifier Line terminals '+' and '-' are connected to the corresponding PSS1 '+' and '-' terminals
- » A 10 k Ω , 2 W EOL resistor is placed at the last PSS1
- » The PSS1 consumes no power unless audio is broadcast on the 100 Vrms line
- » The line is supervised by the application of an inverted DC voltage to the PSS1 '+' terminal

Ordering Information & Notes

Product Code	Description
PSS1-R	Pertronic Sounder Speaker 1W Flush Red
PSS1-W	Pertronic Sounder Speaker 1W Flush White

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.

PERTRONIC® is a registered trademark of Pertronic Industries Limited.