Fire Speakers

CF0705

100mm (4") 100V 5W Surface Mount Speaker White AS ISO7240.24

Overview

A surface mount fire speaker featuring flame retardent housing material and PA driver to suit the new approval requirements. Requires no external equalisation to meet the AS ISO 7240.24:2018 standard. One-Shot design simply snap-fits in seconds to the surface mounting ring, reducing installation time considerably.

Features

- **Designed to meet AS ISO7240.24:2018 for fire/evac installations**
- **Requires no external EQ for AS ISO7240.24:2018 fire systems**
- Excellent speech intelligibility
- High quality speaker driver developed for BGM, paging and emergency warning applications
- Fitted with 4 way wire protect terminal block for loop in, loop out wiring as required by Australian Standards.
- Fitted with supervisory capacitor for line monitoring.
- High impact enclosure & grille.
- Australian designed & assembled.
- 5 year warranty.

The Labour Saving One-Shot® Mounting System

Redback® "One-Shot®" speaker units install in seconds providing substantial labour cost savings for the professional installer compared to traditional mounting methods.

They simply snap fit to the outer mounting ring by means of the integral pressure clips. The snap clip material is formulated to retain long service life strength and spring action, ensuring a firm vibration free fit.

Speaker cable entry can be either from the rear, or via surface mounted conduit (four 19mm conduit knockouts are provided).

The neutral black RAL colour provides an architecturally unobtrusive finish to virtually any installation.

The transformer is fitted with a 4 way wire protect screw terminal block. This is suitable for loop in, loop out cabling.
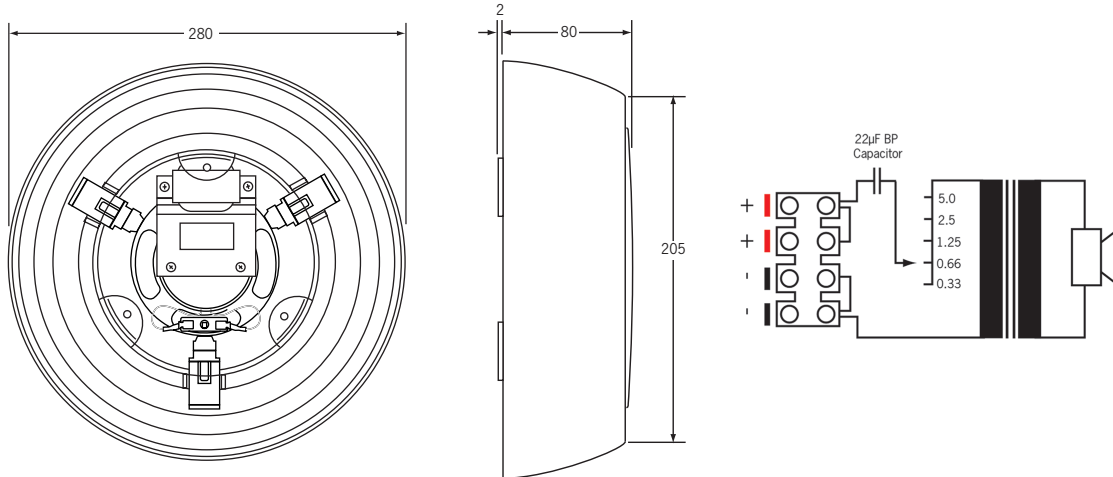
About Redback® Speaker Drivers

Each custom designed speaker and transformer combination has been specifically engineered to ensure a wide frequency range and dispersion angle, plus a high sound pressure level (SPL) ensuring excellent music and speech intelligibility; which is critical for emergency paging applications.

Each transformer is fitted with multiple power settings which are user selectable via taps on the transformer.

ACTIVFIRE CERTIFIED

Dimensions (mm) & Transformer Details

Specifications

Electrical

Rated Noise Power	5 Watts (100V line)
100V Power Taps &	0.33W (30kΩ), 0.66W (15kΩ), 1.25W (8kΩ),
Impedance	2.5W (4kΩ), 5W (2kΩ)
Sensitivity	91dB (1W @ 1m) 79dB (1W @ 4m)
Max SPL	97dB (5W @ 1m) 85dB (5W @ 4m)
Frequency Response	100Hz - 15kHz
Coverage angle (-6dB)	500Hz: 180°, 1000Hz: 155°
Environment Type	A(for indoor applications as per standard)
Line Monitoring	Yes, uF bipolar capacitor
Application Cable	2.5mm² (14AWG) max conductor area
Connection	4 way screw terminal

Mechanical

Speaker Component:	100mm(4") paper cone speaker
Material	Flame retardant ABS grille and housing (Taitalac 8540T)
	Clear Flame retardant ABS spring clips (Makrolon 6557)
Mounting Method	Surface Attattchment
IP Rating	IP 21C
Dimensions	280Ø x 80mm
Weight	0.9kg

Environmental

Operating Temperature	-25°C to +55°C
Relative Humidity	<95%

Architectural Specifications

The surface mount speaker shall have a 100mm speaker driver which shall operate at 100V and have power taps of 5W, 2.5W, 1.25W, 0.66W and 0.33W. It shall be approved to the AS ISO7240.24:2018 fire and evacuation announcement standard. It shall be fitted with a 4 way wire protect terminal block for connection and 22uf bipolar capacitor for line monitoring. It shall have a SPL of 91dB (1W @ 1m). The speaker body shall be made of white flame retardant plastic and shall be surface mounted with concealed fixings. The surface mounting ring shall be provided with side and rear knockouts for conduit entry. The speaker driver shall be attached to the grill which shall be snap-fit attached to the surface mount ring. The ceiling mount speaker shall be a Redback model CF0705.