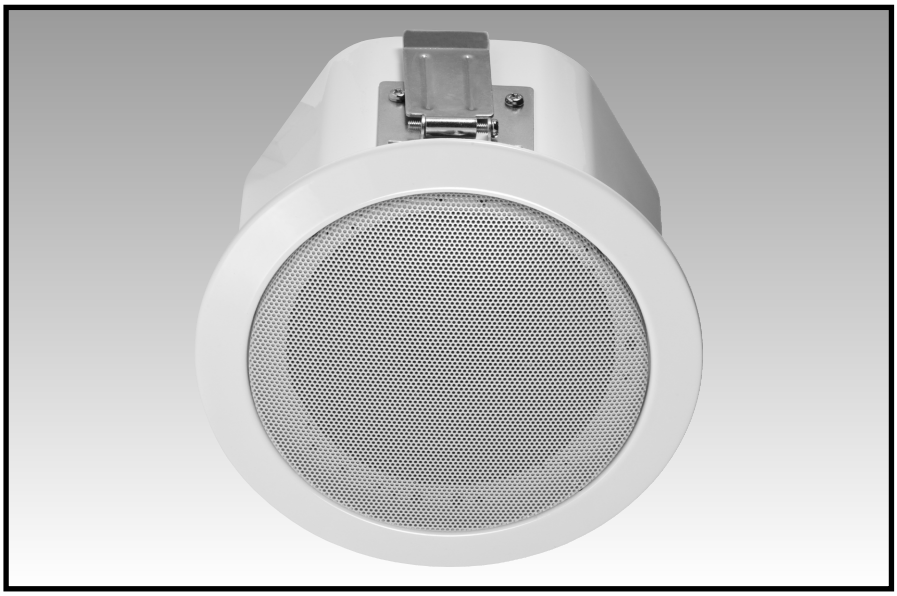
CSS-15C-VA

5" Ceiling Loudspeaker for EN54-24 Applications

Professional Series



Features:

- Component: 127 mm (5 in) full-range dual-cone loudspeaker
- EN54-24 certified and compliant with BS5839-8 standard.
- 6W, 3W and 1.5W multi-tap transformer for use on 100V distributed speaker lines.
- Metal fire dome with easy blind-mount installation; clip-in torsion-mount speaker.

Applications:

CSS-15C-VA is a full-range, EN54-24 certified ceiling speaker consisting of a 127 mm (5 inch) full-range dual-cone driver, torsion-mounted into an included easy-install blind-mount metal fire dome. The speaker is designed to provide clear and intelligible sound for applications requiring EN54 certification and/or BS5839 compliance.

A high temperature ceramic input connector with metal inserts secures bare wire terminations for +, -, and case ground connections, and an in-line thermal fuse protects the distributed speaker line from becoming shorted out when a fire or other issue affects any of the individual speakers. The backcan contains two wiring access holes with sealed diaphragm-type grommets to help physically protect the wire and helps to seal the system at the entrance point. The grommets can be replaced by installer-supplied 19 mm (3/4-inch) mount gland nut fittings if desired for additional seal capability or for additional strain relief capability.

Suitable for a wide variety of projects, the CSS-15C-VA can be set for either 6 Watt, 3 Watt or 1.5 Watt operation on a 100V distributed speaker line.

Specifications:

System:	Frequency Range (-10 dB)[1]:	180 Hz – 20 kHz
	Power Capacity[2]:	6 Watts (at 6W tap)
	Rated Pink Noise Power:	6 Watts (at 6W tap)
	Rated Pink Noise Voltage:	100V distributed speaker line voltage
	Nominal Sensitivity[3]: EN54 Sensitivity (@4 m)[4 5]:	92 dB (6W tap, ave 300 Hz – 15 kHz) 80 dB (at 4m, 6W tap, per EN54-24 spectrum and measurement conditions)
	Coverage Pattern[3]: Coverage Angles (by Frequency): Conical (Vertical & Horizontal):	120° conical (2 kHz) 4000 Hz 2000 Hz 1000 Hz 500 Hz 100° 120° 180° 180°
	Reference Axis for Specifications:	The reference axis for specifications is directly on-axis vertically and horizontally, directly below the speaker as speaker is installed in the horizontal ceiling plane.
	Rated Maximum SPL: EN54 Max SPL (@4m)[4 5]:	100 dB @ 1m (3.3 ft) average SPL (6W tap @ 100V) 88 dB (at 4m, 6W tap, per EN54-24 spectrum and measurement conditions)
	Nominal Impedance:	6W @ 100V tap: 1667 Ω 3W @ 100V tap: 3333 Ω 1.5W @ 100V tap: 6667 Ω
	Transformer Taps:	6W, 3W, 1.5W at 100V. Selected by sliding the included fast-on connector onto the proper tab on the transformer.
Electrical:	Fuse:	Thermal fuse, open temperature 150 degrees C; 2A@250VAC; UL, CUL, VDE, PSE and CCC approved.
Transducer:	Driver:	127 mm (5 in) dual-cone driver, paper cone
System:	Connections:	Input +, Input -, Earth Ground (connected to metal speaker baffle). Ceramic block with brass inserts (3.2 mm / 0.12 in. opening) accommodates 2.5 sq mm / 12 AWC wire.
	Safety Agency:	EN54-24 certified (Certificate No. 1488-CPR-0524/W), Compliant with BS5839/8; IP-21 per IEC529/60529; ROHS, CE compliant. In accordance with IEC60849/EN60849 systems.
	Ambient Temp Range:	-10°C to +55°C
Enclosure:	Installation:	Fire dome installation via two metal clamps, affixed via hex head clamp screws from inside of fire dome. Speaker installation via two torsion springs into hooks on inside of fire dome. See installation instructions.
	Wire Entrance:	Two diaphragm-type sealed-grommet entrance points on backcan in 20 mm (0.82 in) diameter cutouts that can be field fitted with installer-supplied 19 mm (3/4-inch) mount gland nut for additional seal or strain relief.
	Materials:	Metal fire dome, metal speaker baffle, metal grille.
	Dimensions:	162 mm (6.4 in) fire dome diameter (outside of clamps); 183 mm (7.2 in) speaker baffle diameter; 116 mm (4.6 in) depth from bottom of ceiling surface to back of fire dome; 129 mm (5.1 in) total depth.
	Ceiling Cutout Size:	165 mm (6.5 in) diameter hole ±2 mm (0.1 in).
	Ceiling Thickness Range:	0.5 mm (0.02 in) to 23 mm (0.9 in) ceiling thickness
	Net Weight:	1.5 Kg (3.3 lb) per speaker
	Shipping Weight:	1.9 Kg (4.2 lb) per speaker

[1] Half-space (flush mounted in ceiling)
[2] Continuous Pink Noise Rating is IEC-shaped pink noise with a 6 dB crest factor for 100 hours continuously.
[3] Half-space (in ceiling) average 1 kHz to 16 kHz.
[4] EN54 acoustical loading baffle (not the same as an actual half-space ceiling) is utilized for EN54 measurements.
[5] Per "EN54-24 Components of voice alarm systems – loudspeakers": Input signal for Sensitivity and Max SPL has a 2-to-1 peak-to-average ratio. Measurements taken at distance of 4 meters. Max SPL measured with 100V RMS input signal at top 100V tap.

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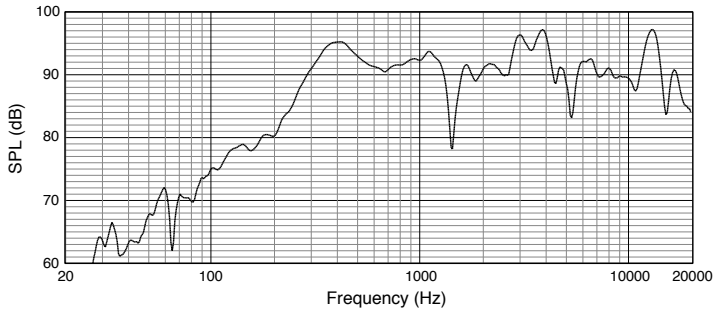
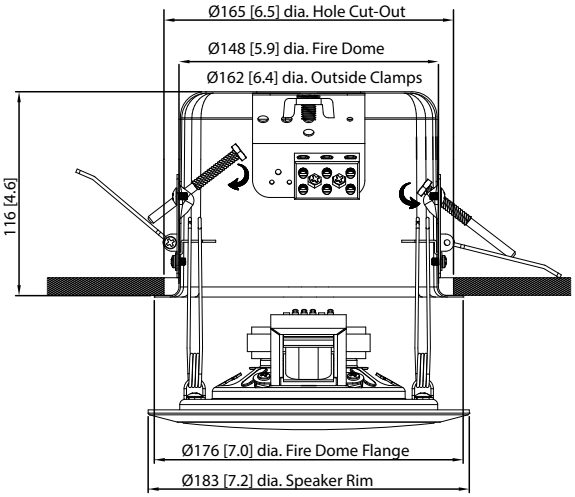
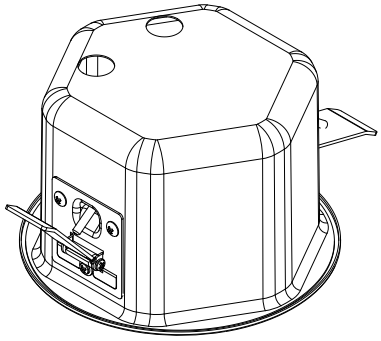
Frequency Response:

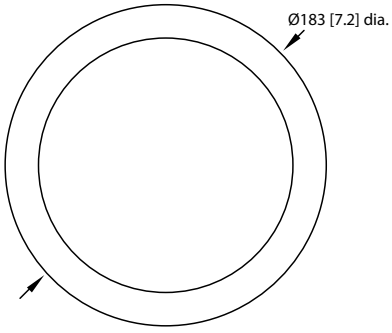
Frequency response in half-space (2π, mounted in ceiling), 1W @ 1m.



Dimensions:







Dimensions in mm (inches)

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