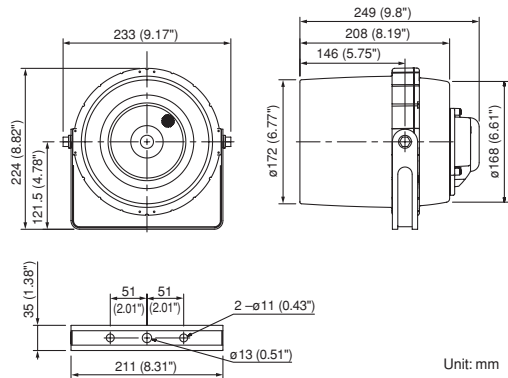


CS-64BS

Wide Range Speaker 6W BS/EN/ISO



APPEARANCE AND DIMENSIONAL DIAGRAM



DESCRIPTION

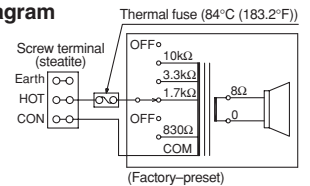
The outdoor-use CS-64BS wide-range horn speaker is designed for background music or paging announcements with high-quality sound. The use of a horn in combination with a cone speaker increases acoustic conversion efficiency, producing high output, while exponential horn enables uniform and clear sound dispersion over a wide area. The CS-64BS has a resin enclosure that is lightweight, strong and resistant to impacts, as well as able to withstand outdoor installation weather conditions. Stainless-steel brackets and screws further protect against rust and corrosion. The speakers also comply with the IP65 Standard for dust- and waterproofing. Internal speaker parts feature a special weatherproofing treatment, while weatherproof polyurethane resin paint makes the enclosures extremely resistant to ultraviolet light. EN 54-24*: 2008 and ISO 7240-24: 2010 certified, the CS-154BS is authorized for use in fire detection systems. It is also in compliance with BS 5839-8: 2008 14.8. Speaker impedance can be externally changed during and after speaker installation with a rotary switch (6W/3W/1W (100V line) and 6W/3W/1.5W/0.5W (70V line)).

*EN 54-24: Loudspeaker for voice alarm systems for fire detection and fire alarm systems.

FEATURES

- Wide-range speaker for voice paging/alarm, background music and tone signaling.
- Exponential horn for uniform and clear sound dispersion.
- Polyurethane resin paint and stainless steel hardware offer excellent weatherproofing, and corrosion resistance.
- IP65 standard compliant for dust- and water-proofing
- Lightweight and strong ABS resin enclosure that is impact-resistant
- Stainless steel mounting bracket for secure installation
- Ideal for schools, parking facilities, boats, factories, parks, swimming pools, etc
- Certified to EN 54-24: 2008 and ISO 7240-24: 2010 (Certificate No.:0359-CPD-0107)
- In compliance with BS 5839-8: 2008 14.8
- Ideally suited for voice alarm system application

Wiring Diagram



SPECIFICATIONS

Rated Noise Power:	6W (100V line and 70V line)
Rated Impedance:	100V line: 1.7kΩ (6W), 3.3kΩ (3W), 10kΩ (1W) 70V line: 830Ω (6W), 1.7kΩ (3W), 3.3kΩ (1.5W), 10kΩ (0.5W)
Sensitivity:	96dB (1W, 1m) (330Hz – 3.3kHz, pink noise) 93dB (1W, 1m) (100Hz – 10kHz, pink noise) 81dB (1W, 4m) (100Hz – 10kHz, pink noise)
Maximum Sound Pressure Level:	100dB (6W, 1m) (100Hz – 10kHz, pink noise) 88dB (6W, 4m) (100Hz – 10kHz, pink noise)
Frequency Response:	130Hz – 13kHz
Coverage Angle:	Horizontal and Vertical: 360° (500Hz), 210° (1kHz), 85° (2kHz), 45° (4kHz)
Environmental type:	B (outdoor applications)
Operating Temperature:	-20°C to +55°C (-4°F to 131°F)
Dust/Water Protection:	IP34
Speaker Mounting Method:	Wall-mount
Cable Gland:	Size: PG 13.5 One cable gland is factory-installed. For bridge connection, one cable gland can be added.*
Applicable Cable Size:	Outer diameter: ø8 – 12.5mm Conductor: Solid wire or 7-core wire No bridge connection: 0.8 – 10mm² (AWG18 – AWG7) for solid wire, 0.8 – 8mm² (AWG18 – AWG8) for 7-core wire Bridge connection: 0.8 – 2.5mm² (AWG18 – AWG13) for solid wire, 0.8 – 1.5mm² (AWG18 – AWG15) for 7-core wire
Cable Connection:	Screw terminal (steatite), can be bridge-connected
Finish:	Horn, Cover and Terminal Cover: ABS resin, off-white, paint Punched net: Surface treated steel plate, dark-gray, powder coating Bracket and Screw: Stainless steel
Dimensions:	233 (W) × 224 (H) × 249 (D) mm (9.17" × 8.82" × 9.8")
Weight:	1.7kg (3.75 lb)
Accessory:	Terminal cover × 1
Option:	Swivel bracket: YS-151S (Can be use instead of the supplied bracket.)

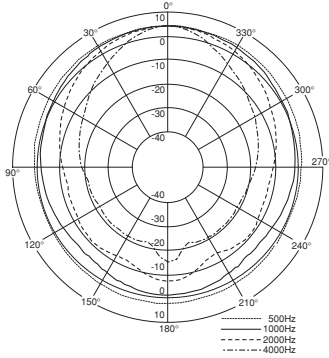
* Suppliable cable gland's part cord and name: 525-52-011-70 Cable gland AVC PGB13.5-12 (GRY)

Note: Never connect the 330Ω position to the 100V line.

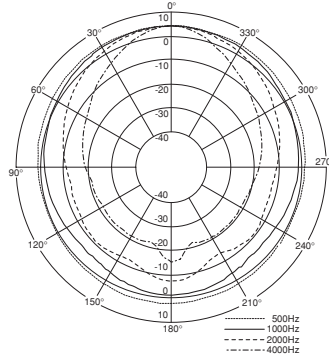


CHARACTERISTIC DIAGRAMS based on EN 54-24 measurement conditions (Pink noise, 1W, 4m)

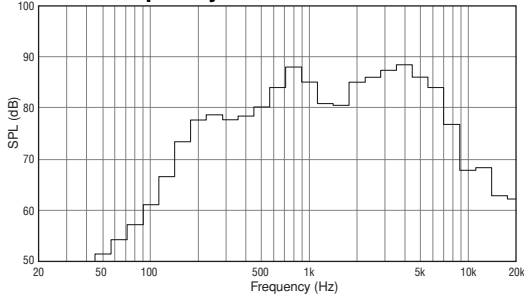
Polar Response (Horizontal)



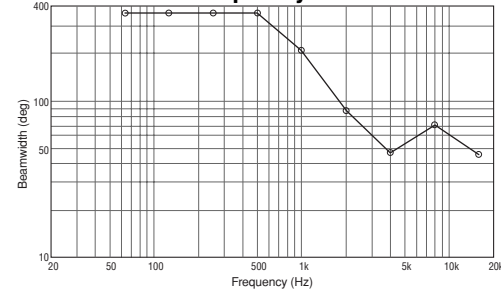
Polar Response (Vertical)



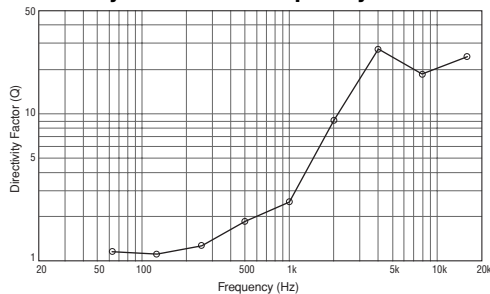
SPL vs. Frequency



Beamwidth vs. Frequency



Directivity Factor vs. Frequency



ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The speaker shall be a wide-range weatherproof horn speaker suitable for paging, background music and voice evacuation for both indoor and outdoor applications. The speaker component shall be a 12 cm (4.72") cone-type speaker, treated for weather-resistance. The speaker shall have an IEC 60529 / EN 60529 splash proof rating of IP34c. Rated input shall be 6 W. Input impedance shall be easily adjustable with rotary switch on the rear side of the speaker.

The speaker shall include a transformer having multiple taps (1 W, 3 W, 6 W at 100 V and 0.5 W, 1.5 W, 3 W, 6 W at 70 V) adjustable. The sensitivity at a distance of 1m with a 1 W input level applied shall be 96 dB. The speaker shall have a frequency response of 130 – 13 kHz. Horizontal and vertical dispersion at -6 dB below the on-axis reference at 2 kHz shall be 85° (H) × 85° (V). The speaker enclosure shall be constructed of ABS resin coated with

polyurethane resin paint to resist long-term exposure to ultraviolet light. The grille shall be constructed of surface-treated steel plate net, dark-grey paint. The speaker shall be available in off-white colour. All mounting hardware, including screws and bolts, shall be stainless steel, which protects the speaker from corrosion. Dimensions shall be 233(W) × 224(H) × 249(D) mm (9.17" × 8.82" × 9.8"). Weight shall be 1.7 kg (3.75 lb.). A fire-resistant steatite screw terminal block with thermal fuse allows secure cable connections and bridge wiring. Internal cables shall be flame-resistant insulation. Fire Rated Cable can be directly connected to the speaker cabinet via 20 mm cable gland.

The speaker shall be certified according to EN 54-24 with CPD Number 0359-CPD-0107, certified according to ISO 7240-24 and in compliance with the British Standard BS 5839-8.

The speaker shall be a TOA model CS-64BS.