

PE-154BS

Pendant Speaker 6W BS/EN/ISO



DESCRIPTION

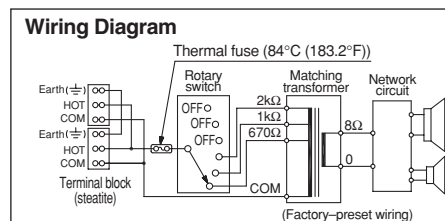
The PE-154BS is a 2-way speaker with an HIPS resin bass-reflex enclosure featuring a 5" (12 cm) cone speaker and a balanced dome tweeter. Intended for ceiling suspension installation, it has an outstandingly stylish design that is inspired by the finest lighting fixtures, allowing it to harmoniously blend in with lighting equipment. It is ideally suited for such applications as BGM and announcements at high-ceiling venues such as airports, factories and shopping malls. The speaker is easy to repaint, extending the range of design needs it can meet. A directly attached sturdy suspension cable is extendable up to 5 meters.

The PE-154BS is driven on a high-impedance (100V or 70V) line. Input impedance is adjustable with a rotary switch on the upper side of the speaker. EN 54-24*: 2008 and ISO 7240-24: 2010 certified, it is authorized for use in conjunction with fire detection systems. It is also in compliance with BS 5839-8: 2008 14.8.

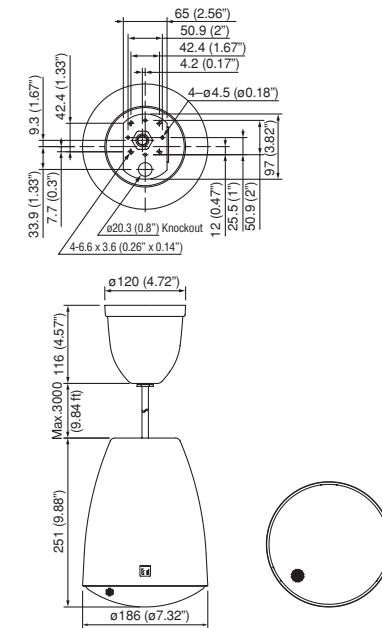
*EN 54-24: Loudspeaker for voice alarm systems for fire detection and fire alarm

FEATURES

- Stylish and outstanding design inspired by the finest lighting fixtures
- Sturdy cable extendable up to 5 meters
- Repaintable
- Input impedance easily changeable
- Certified to EN 54-24: 2008 and ISO 7240-24: 2010 (Certificate No.:0359-CPD-0105)
- In compliance with BS 5839-8: 2008 14.8
- Ideally suited for voice alarm system application



APPEARANCE AND DIMENSIONAL DIAGRAM



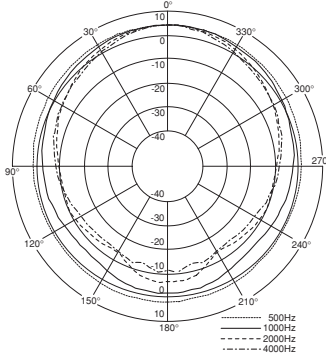
SPECIFICATIONS

| | |
|--------------------------------------|---|
| Rated Noise Power: | 15W (100V line), 7.5W (70V line) |
| Rated Impedance: | 100V line: 670Ω (15W), 1kΩ (10W), 2kΩ (5W) 70V line: 670Ω (7.5W), 1kΩ (5W), 2kΩ (2.5W) |
| Sensitivity: | 91dB (1W, 1m) (500Hz – 5kHz, pink noise) 87dB (1W, 1m) (100Hz – 10kHz, pink noise) 75dB (1W, 4m) (100Hz – 10kHz, pink noise) |
| Maximum Sound Pressure Level: | 99dB (15W, 1m) (100Hz – 10kHz, pink noise) 87dB (15W, 4m) (100Hz – 10kHz, pink noise) |
| Frequency Response: | 70Hz – 20kHz |
| Coverage Angle: | Horizontal and Vertical: 360° (500Hz), 170° (1kHz), 90° (2kHz), 70° (4kHz) |
| Environmental Type: | A (indoor applications) |
| Speaker Component: | Low frequency: 12cm (5") cone-type High frequency: 2.5cm (1") balanced dome tweeter |
| Operating Temperature: | -10°C to +50°C (14°F to 122°F) |
| Speaker Mounting Method: | Ceiling suspension |
| Cable Gland: | Size: PG 13.5 One cable gland is factory-installed, For bridge connection, one cable gland can be added.* |
| Speaker Cable: | 4-core fireproof cable 3m (9.84 ft) |
| Applicable Cable Size: | Outer diameter: φ6.5 – 12.5mm Conductor: Solid wire or 7-core wire 0.8 – 7mm ² (AWG18 – AWG9) for solid wire 0.8 – 4mm ² (AWG18 – AWG11) for 7-core wire |
| Cable Connection: | Screw terminal (steatite) × 2 |
| Finish: | Enclosure: HIPS resin, off-white (RAL 9010 or equivalent color) Grille: Surface-treated steel plate net, off-white (RAL 9010 or equivalent color), paint |
| Dimensions: | φ186 × 251(H) mm (φ7.32" × 9.88") (speaker only) |
| Weight: | 2.33kg (5.14 lb) (speaker only) |
| Accessory: | Ceiling bracket × 1, Mounting hanger × 1, Ceiling cover × 1, Ceiling bracket mounting screw (tapping screw 4 × 16) × 4 |

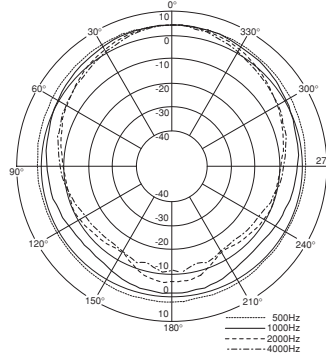
* Suppliable cable gland's part cord and name: 525-52-011-70 Cable gland AVC PGB13.5-12 (GRY)

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

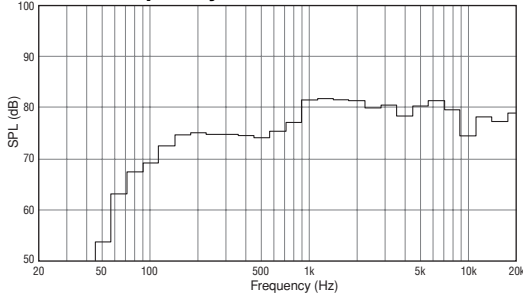
Polar Response (Horizontal)



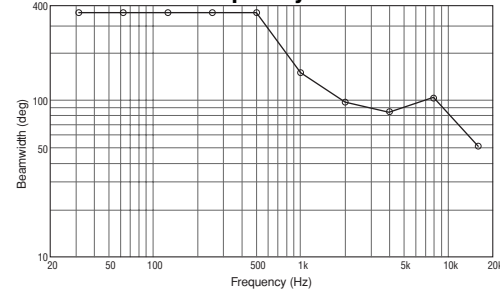
Polar Response (Vertical)



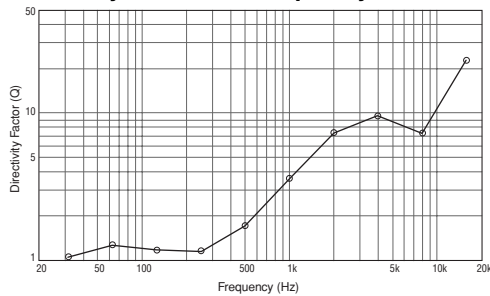
SPL vs. Frequency



Beamwidth vs. Frequency



Directivity Factor vs. Frequency



ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The speaker shall combine a bass-reflex 12 cm (5") cone type, plus balanced dome tweeter, suitable for ceiling suspension mounting. It is also designed for use in voice evacuation systems. Input impedance shall be easily adjustable with rotary switch on the upper side of the speaker.

The speaker shall include a transformer having multiple taps (5 W, 10 W, 15 W at 100 V and 2.5 W, 5 W, 7.5 W at 70 V) adjustable. The output sound pressure level at a distance of 1 m with a 1 W input level applied shall be 91 dB SPL. The speaker shall have a frequency response of 70 – 20 kHz (-20 dB). The speaker shall have an ingress protection for indoor applications: IEC 60529 / EN 60529 drip-proof rating of IP21C. 2 × fire-resistant steatite screw terminal blocks allows secure cable connections and bridge wiring.

Thermal fuse with a blowing temperature of 84°C, 3 meters of shielded 4 core fire-resistant suspension cable avoid risk of failure of speaker line and provide secure mounting feature with internal flame-resistant insulated cables.

The speaker enclosure shall be constructed of HIPS resin. The grille shall be constructed of surface-treated steel plate net. The speaker shall be available in off-white colour. The unit shall have dimensions of $\varnothing 186 \times 251$ (H) mm ($\varnothing 7.32" \times 9.88"$), and a weight of 2.33 kg (5.14 lb).

The speaker shall be certified according to EN 54-24 with CPD Number 0359-CPD-0105, certified according to ISO 7240-24 and in compliance with the British Standard BS 5839-8.

The speaker shall be a TOA model PE-154BS