PC-2369EN Ceiling Speaker 6W EN/ISO



DESCRIPTION

The PC-2369EN is a new thin-panel speaker design that blends in unobtrusively with an application's architecture and interior décor. This ceiling-mount 16 cm (6") cone-type all-metallic speaker is ideal for BGM and announcement applications. It is also designed for use in a voice alarm system, when the speaker system is integrated with a panel. The PC-2369EN is EN 54-24* and ISO 7240-24 certified and is therefore authorized for use in conjunction with fire detection systems. Mounting the speaker into the ceiling is quick and easy, thanks to a spring clamp installation method.

A screw connector steatite input terminal allows secure cable connections and bridge wiring. Input impedance can easily be adjusted by changing the tap position of the transformer.

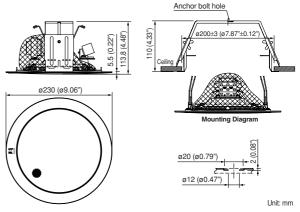
*EN 54-24: Loudspeaker for voice alarm systems for fire detection and fire alarm systems.

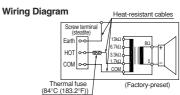
FEATURES

- Thin panel does not clash with interior design
- · Easy installation with spring clamp
- 16 cm (6") high sound quality cone speaker
- High sensitivity: 94 dB (1 W, 1 m)
- · Steatite screw terminal block and thermal fuse
- Certified to EN 54-24 and ISO 7240-24 (Certificate No.: 0359-CPD-0101)
- · Ideally suited for voice alarm system applications



APPEARANCE AND DIMENSIONAL DIAGRAM





(Note) Use transformer terminals when changing input impedance

SPECIFICATIONS

Rated Noise Power: 6 W (100 V Line), 3 W (70 V Line)

Rated Impedance: 100 V line: $1.7k \Omega$ (6 W), $3.3k \Omega$ (3 W), $6.7k \Omega$ (1.5 W), $1.3k \Omega$ (0.8 W),

6.7k Ω (1.5 W), 13k Ω (0.8 W) 70 V line: 1.7k Ω (3 W), 3.3k Ω (1.5 W) 6.7k Ω (0.8 W),13k Ω (0.4 W)

Sensitivity: 94 dB (1 W, 1 m) (500 – 5,000 Hz, pink noise)

92 dB (1 W, 1 m) (100 – 10,000 Hz, pink noise) 80 dB (1 W, 4 m) (100 – 10,000 Hz, pink noise)

 Maximum Sound
 98 dB (6 W, 1 m) (100 – 10,000 Hz, pink noise)

 Pressure Level:
 86 dB (6 W, 4 m) (100 – 10,000 Hz, pink noise)

Frequency Response: 70 - 18,000 Hz

Coverage Angle: Horizontal and Vertical: 160° (500 Hz),

170° (1,000 Hz), 160° (2,000 Hz), 60° (4,000 Hz)

Environmental Type: A (indoor applications) **Speaker Component:** 16 cm (6") cone-type

Operating

Temperature: -10° C to $+50^{\circ}$ C $(14^{\circ}$ F to 122° F)

Dimensions for Mounting hole: Ø 200 \pm 3 mm (Ø 7.87" \pm 0.12")

Fixing Hole: Ceiling thickness: Max. 58 mm (2.28")

Speaker Mounting Method:

ethod: Spring clamp

Applicable Cable: Outer diameter: ø 6.6 – ø 12.5 mm

Conductor: Solid wire or 7-core wire

No bridge connection: 0.8 – 10 mm² (AWG 18 – AWG 7) for solid wire

0.8 – 8 mm² (AWG 18 – AWG 8) for 7-core wire

Bridge connection: 0.8 – 2.5 mm² (AWG 18 – AWG 13) for solid wire

0.8 – 1.5 mm² (AWG 18 – AWG 15) for 7-core wire

Connation: Screw connector (steatite terminal) can be

bridge connection

Finish: Baffle: Steel plate, off-white (RAL 9010 or

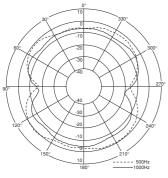
equivalent colour), paint

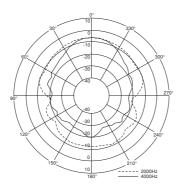
Grille: Surface-treated steel plate net, off-white (RAL 9010 or equivalent colour), paint

Dimensions: \emptyset 230 × 113.8 (D) mm (\emptyset 9.06" × 4.48") **Weight:** 1.1 kg (2.43 lb)

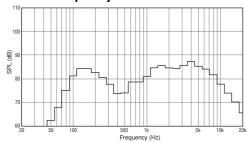
CHARACTERISTIC DIAGRAMS based on EN 54-24 measurement conditions (Pink noise, 1 W, 4 m)

Polar Response

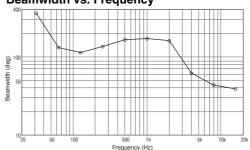




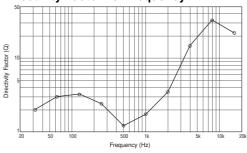
SPL vs. Frequency



Beamwidth vs. Frequency



Directivity Factor vs. Frequency



ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The PC-2369EN is a new thin-panel speaker design that blends in unobtrusively with an application's architecture and interior décor. This ceiling-mount 16 cm (6") cone-type all-metallic speaker is ideal for BGM and announcement applications. It is also designed for use in voice alarm systems. The PC-2369EN is EN 54-24 certified with CPD number 0359-CPD-0101 and ISO7240-24 certified and is therefore authorized for use in conjunction with fire detection systems. Mounting the speaker into the ceiling is quick and easy, thanks to a spring clamp installation method, off-white colour (RAL 9010).

Fire-resistant terminal blocks made of steatite allows secure cable connections and bridge wiring, thermal fuse with a blowing temperature of 84° C.

Input impedance can easily be adjusted by changing the tap position (6 W, 3 W, 1.5 W, 0.8 W) of the transformer. The output sound pressure level at a distance of 1 m with a 1 W input level applied shall be 92 dB SPL (100 Hz to 10,000 Hz). The speaker shall have a frequency response of 70 - 18,000 Hz. Ingress Protection, IP21C. The unit shall have dimensions of Ø 230×110 (D) mm.

