Soundtube CM42-EZS-II-LDS-BK 4 inch 2-Way Ceiling Speaker/New Design/Short Can/Black

This listing is for CM42-EZS-II-LDS-BK Speaker only. Use description below as a general reference.

The CM42-EZs-II is a 4-inch, coaxial, two-way, blind-mount, in-ceiling speaker which delivers true high efficiency and performance across the operating bandwidth. By incorporating a 4-inch treatedfiber driver with cloth surround in a sealed drawn steel backcan, this speaker delivers maximum frequency response (125 Hz – 22 kHz, - 10 dB) in a compact design.

The CM42-EZs-II features a ceramic input terminal that accepts up to 10 gauge plenum rated signal wire and includes a thermal fuse for use in voice alarm applications subject to EU regulations EN60849 and BS5839-8.

Mounting hardware is included and features a constant-tension winged mounting system with a 21-gauge “fullmetal” steel tile bridge ensuring rapid and secure installation in any sheetrock or drop-tile application. For easy ordering, stocking and installation, this series includes a color-coded (orange) tile bridge, optional pre-construction bracket, and a six-position tap switch for 25-, 70.7- and 100-volt applications with transformer bypass position.

Applications

Developed specifically for the paging and background music applications where cost, quality and fit are paramount, the CM42-EZs-II is ideal for hotels, retail stores, restaurants, airports, churches (under eave), medical facilities or boardrooms. Indeed, the entire CM-EZ-II series is engineered for installations where high-efficiency and rapid installation are critical attributes. For applications requiring additional bass response, SoundTube’s CM1001dT subwoofer provides true low-end response down to 50 Hz.

Patented SoundTube Technologies

SoundTube Entertainment and the MSE Audio Group constantly develop new technologies that enhance audio product performance. SoundTube Entertainment innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dome, enclosure and dispersion technologies. The MSE Audio Group actively defends its patents in order to protect SoundTube resellers and end-users.

Technical Data and Specification Tools Technical Data

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from SoundTube Entertainment or at www. soundtube.com. Technical data and downloads include:

- EASE™ data – 3-D polar plots.
- EASE™ Address – 2-D modeling for distributed systems
- Autodesk® Revit® software
- Tech Sheets – Technical information and architectural specs for system engineers
- SoundTubeSPEC™ – Proprietary speaker placement software

Independent Data Acquisition and Verification

All data for SoundTube speakers are independently collected from and verified by NWAA Labs using their proprietary MACH testing system. All data are collected and analyzed according to ASTM, ISO and AES standards using EASERA, TEF and MLSSA. Full balloon data including both phase and magnitude is compiled into a variety of formats including EASE 4.x, GLL and CLF.

Architectural Specifications

The loudspeaker shall consist of one 102 mm (4 in.) low-frequency transducer and one 19 mm (0.75 in.) high-frequency transducer with a frequency dividing network installed in a sealed enclosure. The low-frequency voice coil diameter shall be 13 mm (0.50 in.). The low-frequency transducer shall have a treated fiber cone material with cloth surround. The high-frequency transducer shall be constructed of silk material using a balanced-dome configuration.

Performance specifications of a typical production unit shall be as follows: Usable frequency range shall extend from 125 Hz - 22 kHz, -10 dB. The loudspeaker shall include a selectable 25/70.7/100-volt and 16 ohm transformer bypass position. The frequency-dividing network shall have a crossover frequency of 5.0 kHz. Rated power capacity of the components and network shall be at least 20 watts RMS and conform to EIA-426-B testing. Maximum continuous output at 1 meter shall be at least 100.5 dB SPL.

The backcan shall be constructed of galvanized steel with an ABS plastic baffle. The grille shall be constructed of painted steel. Shipped complete with UL-listed flex conduit clamp, colorcoded tile bridge (to match color-coded backcan), grille, wire nuts, cut-out template and paint shield, the integrated in-ceiling speaker is engineered for high performance and rapid installation in plenum spaces. The unit incorporates three additional attachment points for added security, or code satisfaction where required.

Installation for the speaker shall be by two-screw, blind-mount, constanttension winged assembly with a clamping allowance from 0.00 mm (0.0 in.) to 38.1 mm (1.5 in.). The external wiring shall be via 4 position ceramic terminal strip accepting up to 12-gauge wire.

The maximum backcan dimension shall be no more than 146.8 mm (5.78 in.) in height by 95.3 mm (3.75 in.) in diameter. The maximum visible dimensions shall be no more than 8.4 mm (0.33 in.) in height by 190.5 mm (7.5 in.) in diameter. The unit is factory preset to the 20-watt setting in the 70.7-volt mode with a tap switch located on the front baffle.

The system shall be the SoundTube CM42-EZs-II for both low- high-impedance applications.

Features:

- Engineered for applications with limited plenum space incorporating a SoundTube-specific shallow backcan with an installed depth of only 3.5 inches.
- One 4 inch (102 mm) treated fiber woofer with cloth surround and one 0.75 inch (19 mm) silk dome tweeter.
- Easy-access six-position tap switch for 25/70.7/100-volt and 16 ohm transformer bypass position allows for easy ordering, stocking and installation.
- Reduced amplification costs with maximum efficiency including 87.5 dB sensitivity and 16 ohm impedance.
- Ceramic input terminal accepts up to 10 gauge plenum rated signal wire and includes thermal fuse. Suitable for use in voice alarm applications subject to EU regulations EN60849 and BS5839-8.
- Superior voice intelligibility with an average coverage angle of 100° (2–10 kHz, independently verified).
- Cost-effective 16 ohm settings allows for the use of multiples of two, four, or six speakers in a system using a standard amplifier without a transformer.
- Incorporates a painted steel grille for lasting durability.
- Clamping allowance from 0.00 in. (0.0 mm) to 1.50 in. (38.1 mm).
- UL 1480 (UEAY) and 2043, CE (EMC Directive 89/366/EEC, EN55020, EN55013) approved.
- High-quality black or white painted finish. Custom colors available (custom colors are not EN54-24 2008 certified).