

# ROUND METAL CEILING SPEAKERS

CMS5/T FDS



## DESCRIPTION:

The HEINRICH CMS5/T FDS range comes in three sizes — 5", 6" and 8". The loudspeaker system has a two-part, torsion-mount, CRS grille baffle with a steel mesh grille to present a stylish hardware-free look.

Easy to install, terminal block connection and spade-lug transformer taps allow fast, easy installation and/or wattage change. This speaker package combines the wide dispersion of a 5", 6" and 8" cone loudspeaker with aesthetic excellence, installation advantages and a versatile 6-watt, 100-volt transformer for the "T" model, and up to 10 watt for the coax model.

## APPLICATION:

The CMS5/T FDS speakers present an excellent choice for all ceiling type installations, such as Hotels, Schools, Metro/Railways, Airport, Malls, Theatres, Corridors, Offices and other installations seeking high quality sound reproduction, combined with Voice Evacuation or Public Address applications.

The Coax range of CMS5/T FDS speakers shall provide excellent music quality sound reproduction, suitable for all applications where high-fidelity sound is the criteria, typically Hotels, Conference Rooms, Sports Halls and Shopping Centres. The wide dispersion angle means better coverage at listener level and better sound distribution. The CMS5/T FDS speaker package is an excellent choice for compromise-free in-ceiling audio projects where aesthetics and quality sound are a key consideration.

## PHYSICAL CONSTRUCTION:

The speakers come in a stylish metal chassis, finished in RAL 9016 color and can be shipped to match different color requirements, subject to request.

The two-part system with simple torsion mount system, makes installation easy, while the aesthetic choice will satisfy designers. The FDS version is fitted with 150°C thermal fuse, ceramic terminals and steel fire dome which incorporates removable cable gland plates, capable of withstanding 600°C, in accordance with BS5839 part 8.

## ACOUSTIC MODELING:

The CMS5/T FDS speakers support EASE, CATT and ULYSSES models for acoustical studies. This means the acoustic models can be created to simulate the sound quality and distribution prior to installation. As per BS5839 part 8, EN60849 and NFPA72, a minimum of 0.5 RaSTI is required to achieve the required intelligibility.

## APPROVALS & STANDARDS:

All HEINRICH loudspeakers have undergone tough testing procedures to ensure that all products can operate at their rated power in compliance with IEC60268 - Part 5.

In addition, all the fire-rated products have undergone actual fire tests to ensure compliance with BS5839 Part 8. The CMS5/T FDS speaker package is tested in accordance with IEC60268 - Part 5 for high quality intelligibility. The "CMS5/T FDS" complies with BS5839 part 8, and is hence fitted with ceramic terminal and thermal fuse.

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## ARCHITECT & ENGINEERING SPECIFICATION:

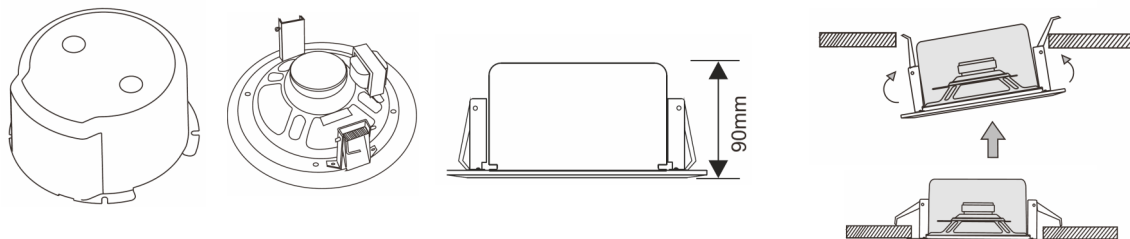
This unit shall be the HEINRICH models CMS5/T, CMS6/T, CMS8/T, CMS5/Coax, CMS6/Coax, CMS8/Coax or equal and approved. Assembly shall comprise of a twin cone loudspeaker and shall be fitted with a 6Watt / 100volt (for CMS5/T and CMS6/T) and 10Watt / 100Volt (for CMS5/Coax, CMS6/Coax and CMS8/T) and up to 20Watt/100volt for (CMS8/Coax) line factory mounted transformer.

The loudspeaker baffle shall be a round two part bezel, comprising an inner metal mesh grille and chassis with integral loudspeaker, having no visible fixings. Installation shall be by pre-mounted torsion-springs and cabling via ceramic terminals and 150°C thermal fuse. The unit for voice alarm application (FDS) must be supplied with a steel fire dome that incorporates a removable cable gland plate capable of withstanding 600°C. This loud-speaker must be compliant with BS5839 part 8.

Transformer shall be 100 volt line with 3dB power taps to be clearly marked on the assembly.

The speakers can be shipped with different colours to match the aesthetic requirements, subject to request.

All units shall be tested in accordance with IEC 60268 Part 5 (formerly BS6840 part 5).



## Technical Specification

MODEL	CMS 5/T - 5/FDS	CMS 5/T COAX- 5/FDS COAX
Rated power, Watts	6	10
Tappings 100 volt line, Watts	6/3/1.5	10/5/2.5
Transformer Impedance, Ohms, 100V	1.67k/3.33k/6.66k	1k/2k/4k/8k
Tappings 70.7 volt line, Watts	3/1.5/0.75	5/2.5/1.25
Driver impedance, Ohms	8	8
Effective frequency range, Hz (BS6840)	100-18,000	80-20,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	92	94
S.P.L. @ Full power Octave Bandwidth, dB	98	101
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	94/95	95/97
Dispersion at 1k/2kHz, Degrees	CMS5/T : 180/160 CMS5/FDS : 180/120	CMS5/TCOAX : 180/180 CMS5/FDSCOAX : 180/160
Directivity Axial Q factor, 1k/2kHz	CMS5/T : 2.3/4.6 CMS5/FDS : 1.9/6.6	CMS5/TCOAX : 2.1/4.0 CMS5/FDSCOAX : 2.0/5.3
Dimensions, diameter, mm	Ø200	Ø200
Net weight, Kgs	CMS5/T : 1.0 CMS5/FDS : 1.50	CMS5/TCOAX : 1.0 CMS5/FDSCOAX : 1.57
Colour/Finish	White RAL9016	White RAL9016
Material	Steel	Steel
Mounting	Torsion Springs	Torsion Springs
Cut out, (mm)	CMS5/T : Ø170 CMS5/FDS : Ø175	CMS5/TCOAX : Ø170 CMS5/FDSCOAX : Ø175