

# 6" CEILING LOUDSPEAKER

## CH-42TN

Ref: 590.003.003

EN 54 -24

The Johnson Controls EN54-24 ceiling speaker with metal housing and 6" for 70/100V lines of high quality for speech and background music. Thanks to the reduced dimensions, it can be installed in limited depth false ceilings.

The CH-42TN speaker comes with a fire dome. It is equipped with ceramic terminals and an isolation fuse to avoid that any damage in the unit could cause a general failure in the speaker line which is connected. These characteristics allow us to maintain the integrity and intelligibility of the system in case of evacuation.

### Features:

- EN54-24 certified ceiling speaker
- Fire Dome
- Excellent for music and speech.
- Easy installation through included springs.



### Technical specifications:

Model	CH-42TN			
Speaker diameter	6"			
Max power	9 W			
Nominal power	6 W rms			
Connection @ 100 V	6 W / 3 W / 1.5 W / 0.75 W			
Connection @ 70 V	3 W / 1.5 W / 0.75 W / 0.375 W			
SPL (Pmax / 1m)	97 dB			
SPL (1W / 1m)	89 dB +/- 3 dB			
SPL (1W / 4m)	77 dB +/- 3 dB			
Frequency response (- 10 dB )	100 Hz-20K Hz			
Dispersion ( -6 dB )	500Hz	1000 Hz	2000 Hz	4000Hz
	180°	170°	140V	80°H 90°V
Nominal voltage	100 V / 70 V			
Nominal impedance	1.7 kΩ / 3.3 kΩ / 6.7kΩ / 13kΩ			
Connection	Ceramic terminal. Max section: 2.5mm2			
Thermal Fuse	150°			
Dimensions	Φ 200 mm x 90 mm			
Installation drill	Φ 175 mm			
Colour	White (RAL 9016 ) / Red ( RAL 3000)			
IP protection grade	IP44			
Net weight	1 Kg			
Gross weight	1,16 Kg			
Packaging dimensions	200 x 200 x 110 mm			

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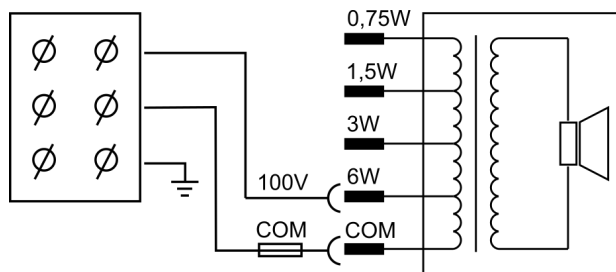
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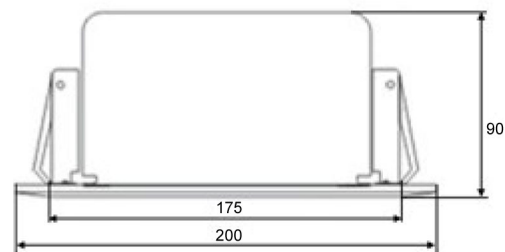
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- The reference axis is perpendicular to the central point of the grid.
- The reference plane is perpendicular to the center of the reference axis.
- The horizontal plane is perpendicular to the central point of the reference plane.
- Acoustic environment employed: Normalized acoustic screen in anechoic chamber

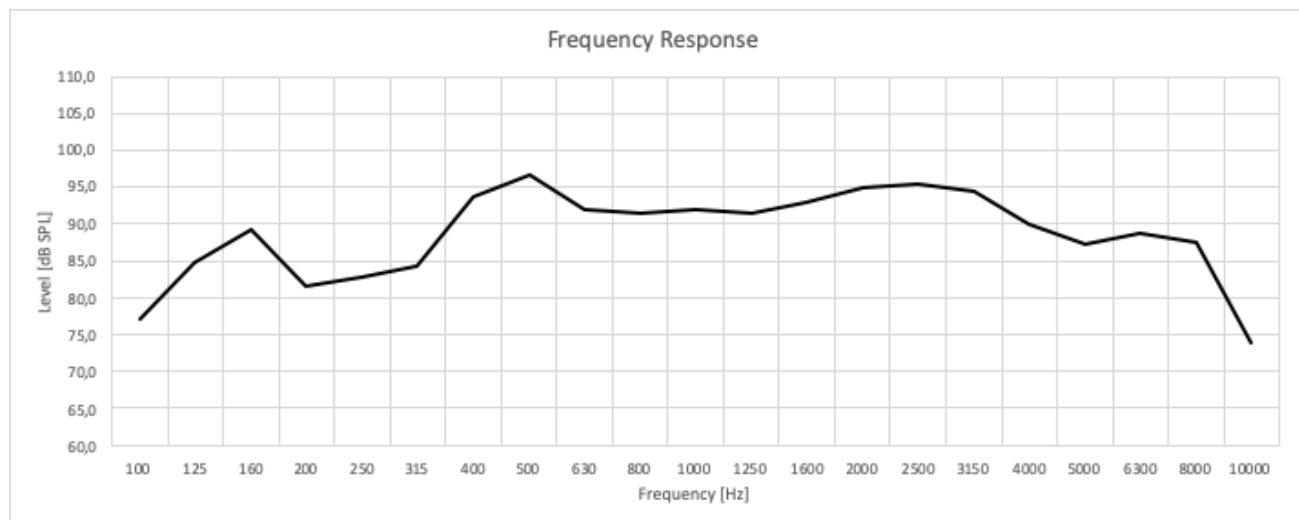
### Circuit diagram:



### Main mechanical views:



### Frequency response:



### Installation:

- Cut a hole in the false ceiling with the proper diameter.
- Make the connection and select the desired tapping power. Protect the installation wire using a PG-13,5 cable guide or a channeling tube (not included with the unit).
- Lock the cover using the provided screws. Then, compress the anchor springs towards the top side and introduce the unit in the hole made.