

The NB-50TN is a high-performance 2-way coaxial ceiling speaker with 6W power, specially designed for clean and humid environments, even seawater installations. Additionally, thanks to its IP54 protection, it can be used outdoors without any issues. Its lightweight frameless design makes it elegant, allowing it to blend easily with most spaces, such as hotels, shopping malls, conference rooms, and exhibition halls. Its moisture sealing allows installation in wet environments such as bathrooms or swimming pools.

This loudspeaker complies with the EN 54-24 voice alarm standard.



Features of NB-50TN:

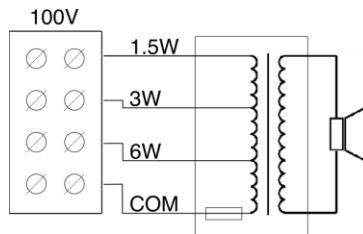
- EN54-24 certified.
- Specially designed for clean room applications.
- Suitable for humid environments.
- Seawater resistant.
- IP54 protection grade against elements.
- Manufactured in fire-resistant ABS UL94-5VB.
- Frameless lightweight design.
- Protective dome.
- Removable cover for connection and wiring.
- Suitable for all types of ceilings.

Technical specifications:

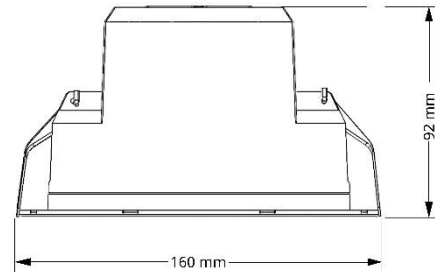
Model	NB-50TN			
Reference	LDANB50TNS01			
Speaker diameter	5"			
Max power	9 W			
Nominal power	6 W rms			
Connection @ 100 V	6 W / 3 W / 1.5 W			
Connection @ 70 V	3 W / 1.5 W / 0.75 W			
SPL (Pmax / 1m)	96 dB +/- 1dB			
SPL (1W / 1m)	88 dB +/- 1dB			
SPL (1W / 4m)	76 dB +/- 1dB			
Frequency response (- 10 dB)	130 Hz - 14 KHz			
Dispersion (-6 dB)	500Hz	1000 Hz	2000 Hz	4000Hz
	180º	170º	160ºV	80ºH 85ºV
Nominal voltage	100 V / 70 V			
Nominal impedance	1.6 kΩ / 3.3 KΩ / 6.6kΩ			
Connection	Ceramic terminal. Max section: 2.5mm ²			
Thermal Fuse	115°			
Dimensions	Φ 160 mm x 92 mm			
Installation drill	Φ 140 mm			
Colour	White (RAL 9003) / Red (RAL 3000)			
IP protection grade	IP54 (type B EN54-24)			
Net weight	0.68 Kg			
Gross weight	0.85 Kg / 11.5 Kg (12 units)			
Packaging dimensions	175 x 175 x 110 mm / 545 x 365 x 250 mm (12 units)			

- The reference axis is perpendicular to the central point of the grid.
- The reference plane is perpendicular to the center of the reference axis.
- Horizontal plane is perpendicular to the center of the reference plane.
- Acoustic environment used: Normalize frequency screen in an anechoic chamber.

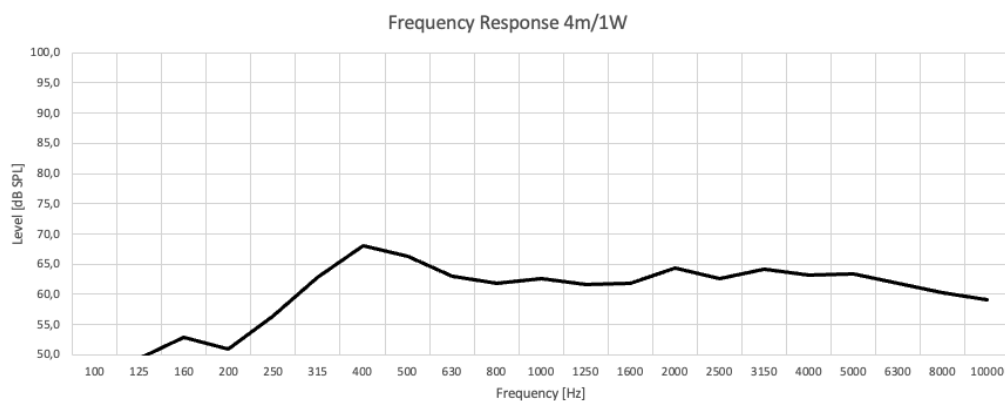
Circuit diagram:



Main mechanical views:



Frequency response:



Installation:

1. Cut a hole in the false ceiling through the proper diameter.
2. Unscrew the rear cap situated on the cover. Fill the wire through the rubber cable grommet and the cap.
3. Make the connection and select the desired tapping power. Protect the installation wire using the included rubber cable guide. Screw again the rear cap on the cover.
4. Then, compress the anchor springs towards the top side and introduce the unit in the hole made in step 1.