IP54 Ceiling speaker for Voice Alarm application, certified EN 54-24

EN54-24

DESCRIPTION

The CSP 306 TWP/EN is a splash-proof ceiling speaker with frameless metal grille and metal back cover which isperfect for the installation in bathrooms, pool areas, e.g.
The 6W powered speaker is equipped with a 76mm full-range loudspeaker and a 100V transformer with 3 power adjustments.
The powder coated metal in RAL 9016 guarantees longterm stability.
The speaker is secured with protection class IP 54 against the risks of environmental influences.
For additional reliability the speaker is impregnated against wetness.
Fast and easy installation by WAGO 221 connector and strong spring clamps with protective caps for vibration damping.
The connecting cables canbe supplied by rubber grommets in the firedome. Special paint of the speaker in 4-digit RAL- or NCS- colour available at extra cost.
The firedome is included in the delivery.
This speaker is suitable for a ceiling strength of about 1 – 45 mm.
Our specification is primarily related to solid ceilings, for ceilings with soft materials a higher ceiling thicknesses could be necessary. In addition, stronger cables and other fittings may also result in changes of the appropriate setup. With regard to the variety of materials and manufacturers, we recommend to build in a sample of the speaker to match the requirements accurately.

ELECTRICAL DATA

Transducers	76mm Full-range driver
Rated Noise Power	6W
Rated Impedance	100V LINE : 1667/3333/6667 Ohm LOUDSPEAKER DIRECT/BYPASS : 8 Ohm
Transformer Taps (100V)	6/3/1,5 W
Frequency response (-10dB)	93 - 20.100 Hz
EN54-24 Sensitivity (1W/4m)	68,5dB
EN54-24 Max SPL (rated noise power/4m)	77dB
Dispersion -6dB, 500Hz	180°
Dispersion -6dB, 1KHz	180°
Dispersion -6dB, 2KHz	140°
Dispersion -6dB, 4KHz	81°

MECHANICAL DATA

Dimensions	Ø140x98 mm
IP Rating	IP54 (Type A)
Weight (net)	0,68 kg
Ceiling Cut-out	129 mm
Temperature range	-10 / +55 C°
Mounting	spring clamp
Connector	WAGO 221 (4x2 terminals)
Terminal diameter	2,3mm
Colour	RAL 9016
Optional Accessories	
Fullrange driver	3

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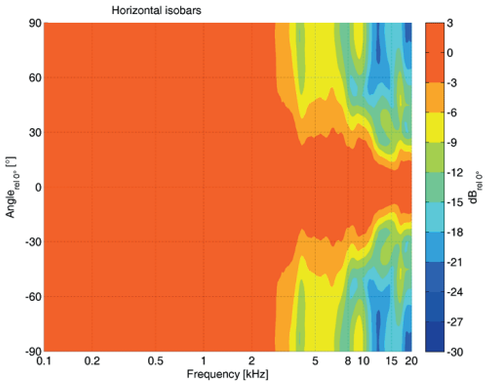
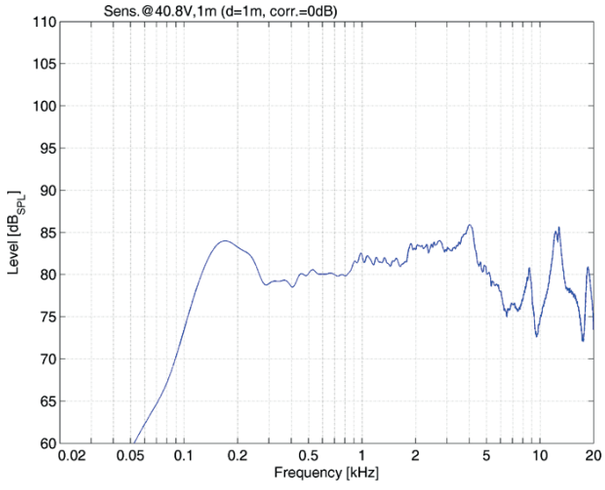
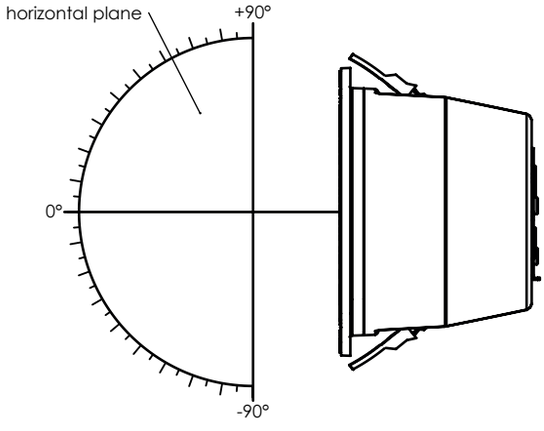
POLAR DIAGRAMS

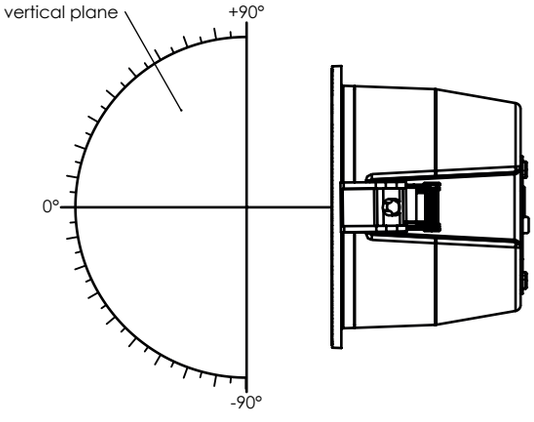


FREQUENCY RESPONSE DIAGRAM



MEASUREMENT REFERENCE AXIS





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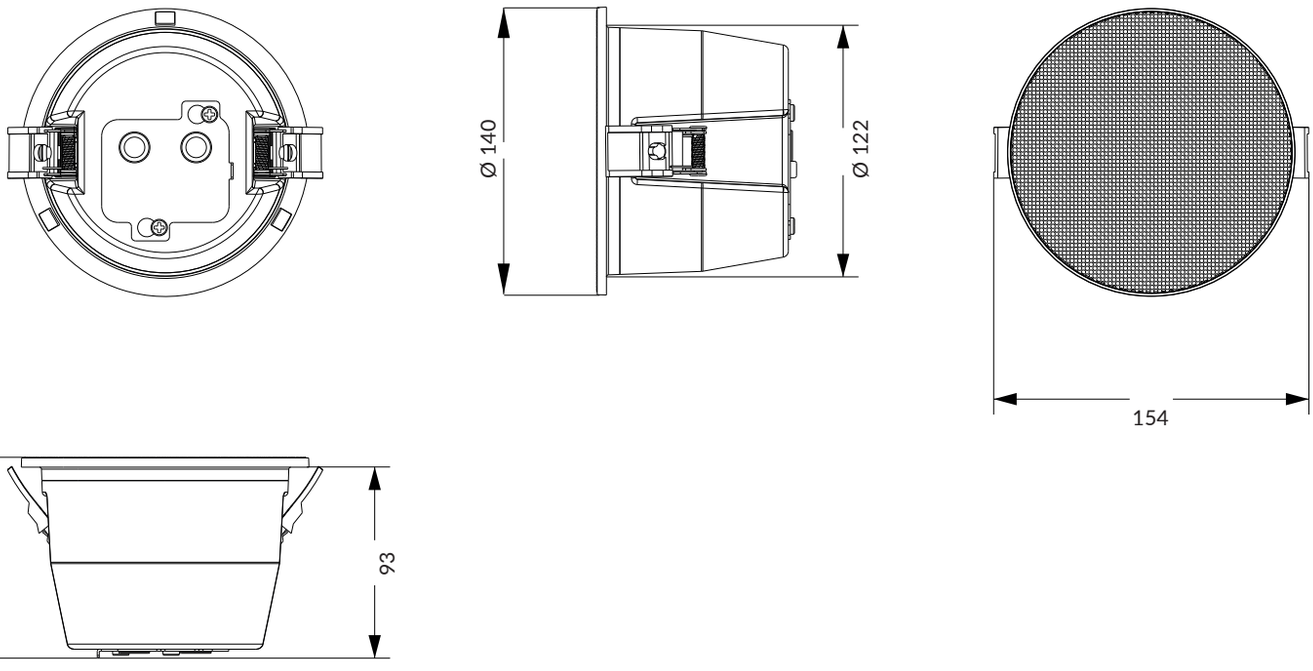
DIMENSION DRAWING



MOUNTING INSTRUCTIONS

1. Loosen the terminal cover screws, slide them to the right and remove them
2. Pass the incoming cable through the cable entry of the terminal cover
3. Connect the incoming cable to the WAGO clamp of the loudspeaker
4. Replace the terminal cover and slide it to the left. screws
5. Lift up the leg spring of the loudspeaker and put the loudspeaker into the ceiling cut-out.
6. Put the loudspeaker into the ceiling cut-out until the speaker is completely locked up with the ceiling.

NOTES

- About enclosure protection, the loudspeakers are tested and classified according to the IEC standard 60529, please note that the testing of the products has been carried out in laboratory conditions which are not always 100% comparable with the conditions of different installation environments. This protection can be reduced due to normal wear and tear depending on the installation environment.
- The IP rating specified is based on Manufacturer test results, not on CNBOP-PIB test results. Certification only verifies the minimum requirements for EN54-24 compliance.
- Data presented on this data sheet represents the basic performance specifications for the model. For a detailed analysis of this loudspeaker's performance, please download the GLL file from our website: www.fbt.it
- FBT strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.
- The Specifications data was measured according to EN 54-24.

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