Ceiling Speaker for Marine and Voice Alarm

EN 54-24:2008

IP54

MAIN FEATURES

- Suitable for marine and cleanroom application
- Compact and light-weight enclosure in ABS
- Balanced sound reproduction
- PG9 IN/OUT entry cables connection
- 5-pin terminal connector
- EN54-24 / IP54 certified / ISO 14644-1

DESCRIPTION

The CSP 610 TMG/EN is ideally suited for indoor and outdoor use on ships. Thanks to its robust construction and high-quality materials, the ceiling speaker offers permanent protection against seawater and UV rays. The 10W CSP is equipped with a 165mm dual cone full-range speaker made of high-quality polypropylene for powerful sound reinforcement. The flat design ABS plastic housing offers a seawater-resistant cover of the terminal. Lateral ventilation slots provide optimal frequency response. Thanks to the PG9 cable entry on the side, a space-saving connection is effortlessly possible. The spring snap system reduces the installation time; protective caps at the spring ends reduce possible vibrations to a minimum. Besides the classical maritime application, the CSP with EN54-24 certification is also suited for voice alarm installations in swimming pools and similar wet areas. Thanks to its special protective properties, this loudspeaker is also suitable for cleanroom applications according to ISO 14644-1.

TECHNICAL SPECIFICATIONS

GENERAL

Code	White	45891
Configuration	way	1
Fullrange driver	inch	6.5

ACOUSTIC SPECIFICATIONS

Frequency response	Hz	42 - 25k
Frequency range	Hz	50 - 24k
Sensitivity (@1W/4m)	dB	78.9
MAX SPL (Pmax/4m) peak	dB	86.2
Dispersion (@-6dB)		165° (500Hz)
		165° (1kHz)
		145° (2kHz)
		65° (4kHz)

INPUTS & OUTPUTS

Input connectors		5-pin terminal

AMPLIFIER

Nominal impedance (100V)	Ohm	1000 / 1667 / 3333 / 6667
Transformer taps	W	10 / 6 / 3 / 1.5

MECHANICAL SPECIFICATIONS

Material		ABS
Opertaing / Storage temperature	°C	-25 / +70
Net dimensions (WxHxD)	mm	ø220 x 82
	inch	ø8.66 x 3.22
Net weight	kg	1.00
	lb	2.20

DIMENSIONAL DRAWING

82mm / 3.22"

75.7mm / 2.98"

ø220mm / 8.66"

ø124mm / 4.88"

ø175mm / 6.88"
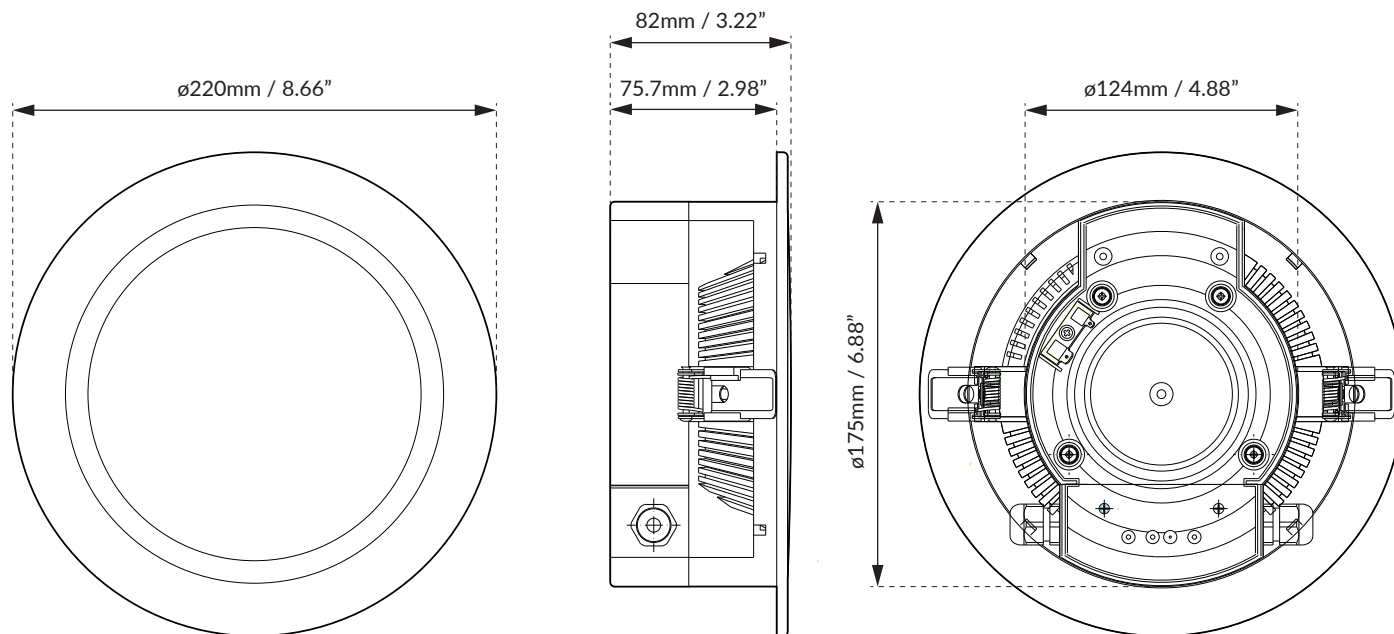
MOUNTING INSTRUCTIONS

1. Loosen the terminal cover screws.
2. 2. Pass the incoming cable through the PG 9 cable entry
3. 3. Connect the incomng cable to the plastic clamp of the loudspeaker
4. 4. Replace the terminal cover and tighten the screws again.
5. 5. Lift up the leg spring of the loudspeaker and put the loudspeaker into the ceiling cut-out.
6. 6. Put the loudspeaker into the ceiling cut-out until the speaker is completely locked up with the ceiling.
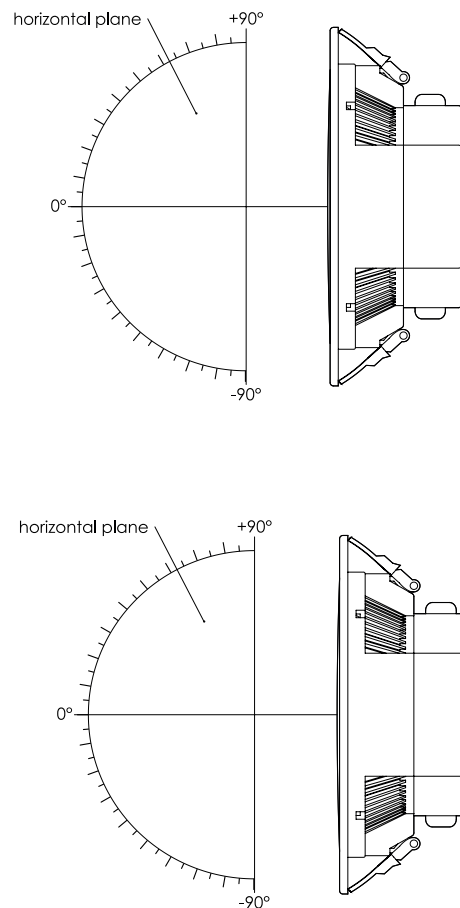
NOTE

- 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 CNBOPPIB 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.

FBT

POLAR DIAGRAMS
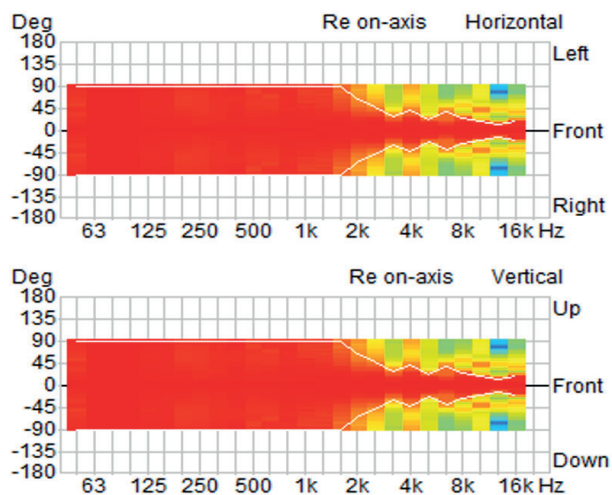
MEASUREMENT REFERENCE AXIS

FREQUENCY RESPONSE DIAGRAM