



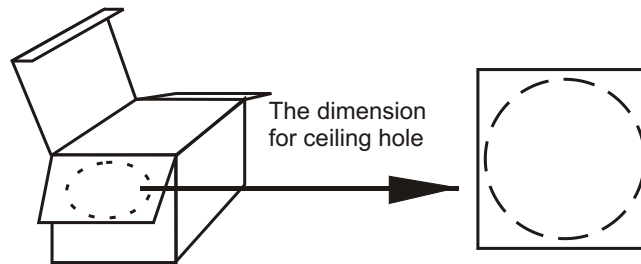
SPECIFICATIONS OF CSL-6106/6112/6120(EN54-24) CEILING SPEAKER Function instruction

Ceiling Speaker features:

Grille and basket are melt-made and off-white with epoxy crossing. The fire dome is made of 5VB plastic that prevents the fire from spreading in the ceiling in case of an emergency situation. The speaker can be easily installed using the speaker mounting spring in the ceiling panel. This series ceiling speaker has a transformer with different output power which brings clearer sound quality and reduces its mechanical loss (improving bass quality, making sound melodious dulcet and soft). It is suitable for professional office, airport, restaurant, supermarket, school, and some special retail shops and so on. The CSL-6000 certificated European Standard EN54-24.

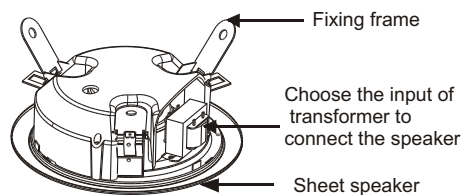
Installation notice:

1. Drill a round hole into the ceiling in accordance with the ceiling drilling picture on the attached cover in the inner box. (See picture A)



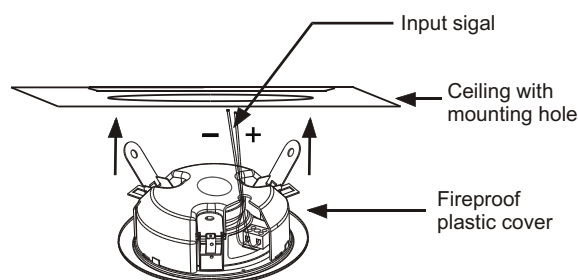
Picture A

2. Connect the electric wire to facility then choose the required input voltage and output power. (See picture B)



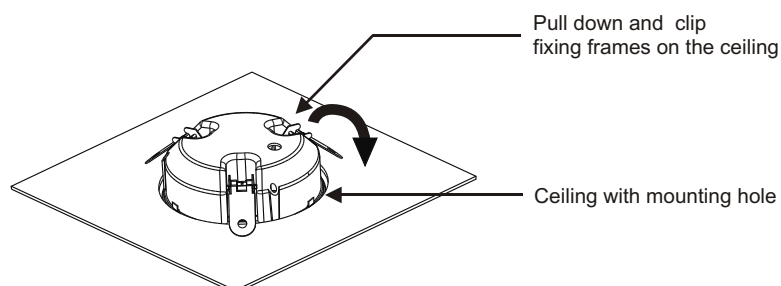
Picture B

3. After connecting the speaker, pull the three fixing frames on speaker vertically, then push it into the round hold on ceiling for fixing. (See picture C)



Picture C

4. The speaker is fastened to the ceiling after pulling down and clipping fixing frames to the lowest. (See picture D) Please refer to specifications and instructions of the product for more details.



Picture D

SPECIFICATION:

Model	CSL-6106	CSL-6112	CSL-6120
Built-in speaker	6.5" full range paper speaker	6.5" full range paper speaker	6.5" full range paper speaker
Rated Noise Power	6 W (70V/100V Line)	12 W (70V/100V Line)	20 W (70V/100V Line)
Rated Impedance	70 V line:3333 Ω (1.5W)/1667 Ω (3W)/817 Ω (6W) 100 V line:6667 Ω (1.5W)/3333 Ω (3W)/1667 Ω (6W)	70 V line:1667 Ω (3W)/833 Ω (6W)/408 Ω (12W) 100 V line:3333 Ω (3W)/1667 Ω (6W)/833 Ω (12W)	70 V line:1000 Ω (5W)/500 Ω (10W)/245 Ω (20W) 100 V line:2000 Ω (5W)/1000 Ω (10W)/500 Ω (20W)
Sensitivity	92dB (1 W, 1 m) (500 Hz - 5 kHz, pink noise) 79 dB (1 W, 4 m) (100 Hz - 10 kHz, pink noise) according to EN 54-24 92 dB (1 W, 1 m) (100 Hz - 10 kHz, pink noise) converted based on EN 54-24	92 dB (1 W, 1 m) (500 Hz - 5 kHz, pink noise) 79 dB (1 W, 4 m) (100 Hz - 10 kHz, pink noise) according to EN 54-24 92 dB (1 W, 1 m) (100 Hz - 10 kHz, pink noise) converted based on EN 54-24	92 dB (1 W, 1 m) (500 Hz - 5 kHz, pink noise) 79 dB (1 W, 4 m) (100 Hz - 10 kHz, pink noise) according to EN 54-24 92 dB (1 W, 1 m) (100 Hz - 10 kHz, pink noise) converted based on EN 54-24
Frequency Response	110 Hz - 20 kHz	110 Hz - 20 kHz	95 Hz - 20 kHz
Maximum Sound Pressure Level	85 dB (6 W, 4 m) (100 Hz - 10 kHz, pink noise) according to EN 54-24 98 dB (6 W, 1 m) (100 Hz - 10 kHz, pink noise) converted based on EN 54-24	87 dB (12 W, 4 m) (100 Hz - 10 kHz, pink noise) according to EN 54-24 98 dB (12 W, 1 m) (100 Hz - 10 kHz, pink noise) converted based on EN 54-24	88 dB (20 W, 4 m) (100 Hz - 10 kHz, pink noise) according to EN 54-24 98 dB (20 W, 1 m) (100 Hz - 10 kHz, pink noise) converted based on EN 54-24
Coverage Angle (-6dB)	500 Hz: 270°, 1 kHz: 150°, 2 kHz: 90°, 4 kHz: 70°, according to EN 54-24	500 Hz: 270°, 1 kHz: 140°, 2 kHz: 80°, 4 kHz: 50°, according to EN 54-24	500 Hz: 200°, 1 kHz: 128°, 2 kHz: 90°, 4 kHz: 80°, according to EN 54-24
Weight	0.88 kg (bracket, fire dome included)	0.94 kg (bracket, fire dome included)	1.12 kg (bracket, fire dome included)
Dimensions	ϕ 199 x 13mm (exposed section) + 74(D)mm	ϕ 199 x 13mm (exposed section) + 74(D)mm	ϕ 199 x 13mm (exposed section) + 74(D)mm
Environmental Type	(indoor applications) according to EN 54-24		
Speaker Component	16.5 cm (6.5) cone-type"		
Dimensions for Fixing Hole	ϕ 178 (mounting hole) x 30 (maximum ceiling thickness) mm (ϕ 7 x 1.18)"		
Applicable Cable	Solid wire: ϕ 0.8 mm (AWG-18)		
Connection	Screw connector (steatite terminal x 2) bridging		
Finish	Baffle: steel, white or equivalent color), paint Grille: steel net, off-white or equivalent color), paint Dome mounting bracket: trivalent chromate treatment plating Fire dome is made of 5VB plastic		

Instruction of maintenance:

1. Please refer to installation drawing and operate according to safety instruction;
2. Keep speaker clean, you can use a clean cloth to wipe the dust on the speaker or use hair dryer to blow.
It's forbidden to use dissolvent, such as un-pure toluene, alcohol or other dissolvent with strong volatility.
3. Fuse: please select the required type fuse (250V#130 $^{\circ}$ C. 1A)
4. The speakers should avoid fire or to get an electric shock or be exposed to the rain, it's also forbidden to use it in the wet environment. If long time no use, please keep it properly.



If the speaker is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.



During operation, there is a hazard of contact with a voltage up to 100V at the connection cable. The installation must be carried out by skilled personnel only. Always insulate the cores of the speaker connection cable that are not used.