

BS-680FC

WALL MOUNT SPEAKER 6W BS5839.



Constructed with metal cabinet, the speaker is ideal for use in a voice alarm system. Can be surface- or flush- mounted to the wall. Either concealed in-wall wiring or exposed wiring can be used for speaker cable connection. The speaker structure of direct wall-mounting with screws prevents the speaker from falling easily even if an outward force is applied to. The input impedance can be easily changed by changing the tap position of the transformer. The built-in 16 cm double cone speaker unit delivers high quality sound. Two steatite screw terminal blocks (1 cable to 1 connection type) make bridge connection easier.

Key features

- Surface or flush-mounting
- High sound quality & sound pressure
- Bridge wiring possible
- Certified according to EN 54-24: 2008
- Compliant with BS-5839-8: 2008

Specifications

Rated Noise Power	6 W (100 V line), 3 W (70 V line)
Rated Impedance	100 V line: 1.7 k Ω (6 W), 3.3 k Ω (3 W), 6.7 k Ω (1.5 W), 13 k Ω (0.8 W) 70 V line: 1.7 k Ω (3 W), 3.3 k Ω (1.5 W), 6.7 k Ω (0.8 W), 13 k Ω (0.4 W)
Sensitivity	>94 dB (1 W, 1 m) (500 Hz - 5 kHz, pink noise) >77 dB (1 W, 4 m) (100 Hz - 10 kHz, pink noise) according to EN 54-24 >89 dB (1 W, 1 m) (100 Hz - 10 kHz, pink noise) converted based on EN 54-24
Max. SPL	>84 dB (6 W, 4 m) (100 Hz - 10 kHz, pink noise) according to EN 54-24 >96 dB (6W, 1 m) (100 Hz - 10 kHz, pink noise) converted based on EN 54-24 *
Frequency Response	150 Hz - 20 kHz
Coverage Angle	500 Hz: 180° (horizontal and vertical); 1 kHz: 140° (horizontal and vertical); 2 kHz: 120° (horizontal), 110° (vertical); 4 kHz: 100° (horizontal), 80° (vertical); according to EN 54-24
Environmental Type	A (indoor applications) according to EN 54-24
Speaker Component	16 cm (6") double cone-type
Cable Requirements	Solid wire: $\varnothing$ 1.0 - $\varnothing$ 3.0 mm (AWG 18-9)
Connection	Screw connector (steatite terminal x 2) bridging
Finish	Baffle, Cabinet: Steel plate, off-white (RAL 9010 or equivalent color), paint Grille: Surface-treated steel plate net, off-white (RAL 9010 or equivalent color), paint
Dimensions	310 (W) x 190 (H) x 90 (D) mm (12.2" x 7.48" x 3.54")
Weight	2.6 kg (5.73 lb)
Included Accessories	Rubber grommet x 2, Speaker mounting screw (4 x 16) x 4

*TOA's rating is conservative, specifying a 100 % confidence level. According to notified body CNBOP the following measures have been verified: 89.7 dB at 6 W, 4 m and 101.7 dB at 6 W, 1 m.

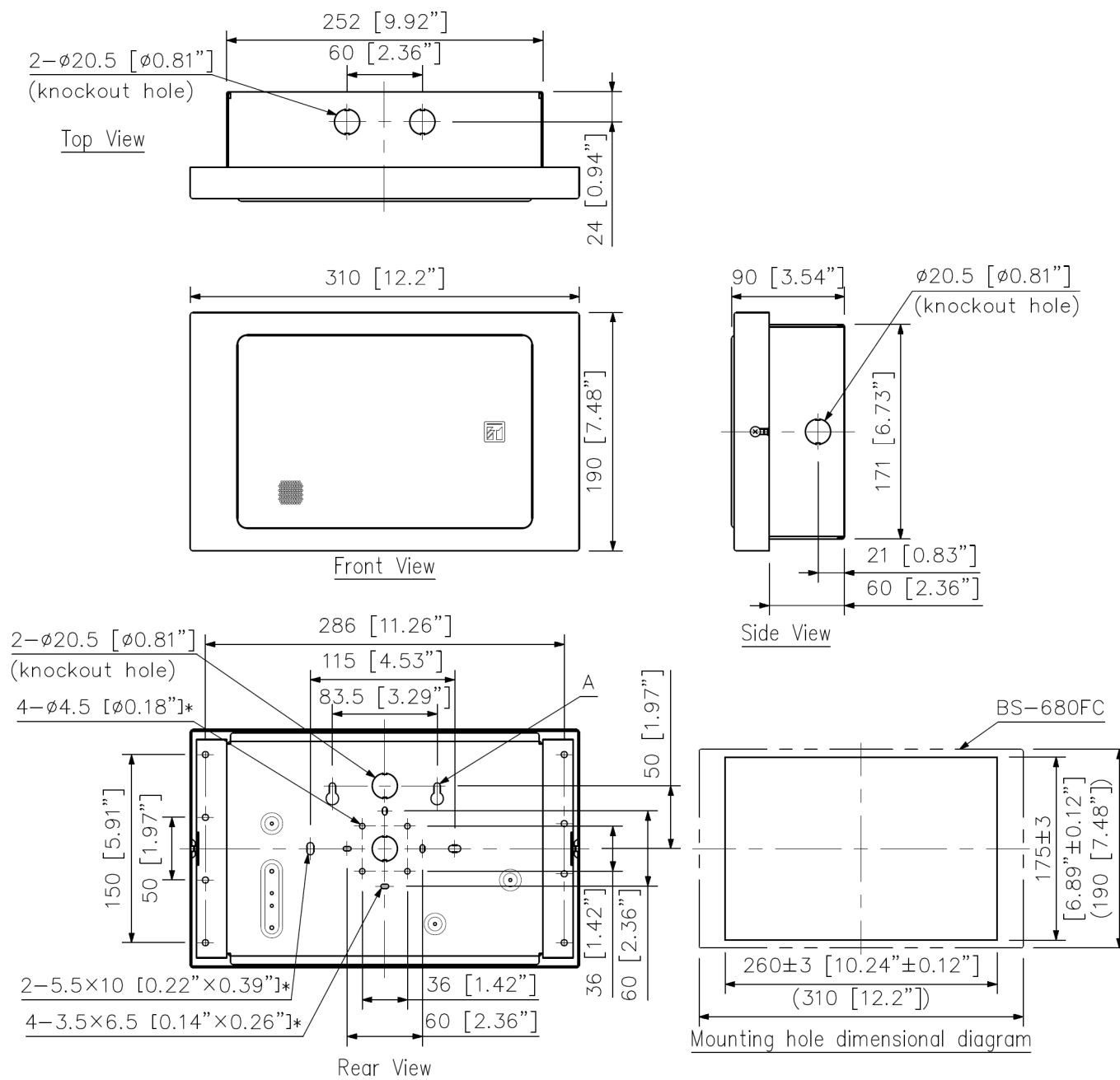
[Note] The specification data was measured in an anechoic chamber.

Reference axis; axis is on the center of grill surface and perpendicular to the grill surface.

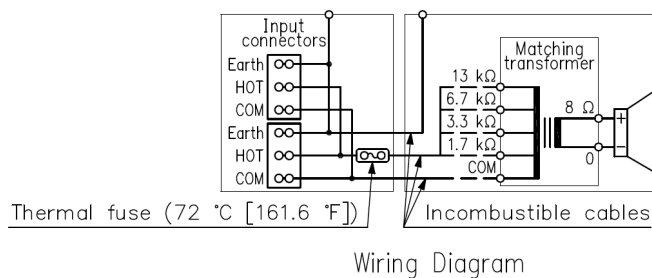
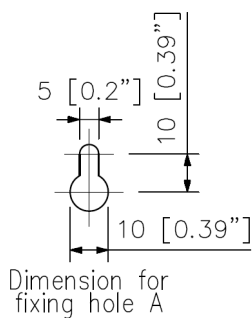
Reference plane: plane is on the grill surface and perpendicular to the reference axis.

Horizontal plane: plane is containing the reference axis and perpendicular to the reference plane.

Dimensions



*Since no mounting screws are supplied with the speaker, separately prepare them appropriate for the construction of wall and its thickness.



A&E specifications

The speaker shall be a 16 cm (6") double cone-type speaker suitable for wall-mounting. Both wall and in-wall mounting shall be possible. Two statite terminal blocks shall allow bridge connection. The speaker shall be EN 54-24 certified and compliant with BS 5839-8. The speaker shall include a transformer having multiple taps (0.8W, 1.5W, 3W, 6W at 100V line and 0.4W, 0.8W, 1.5W, 3W at 70V line) adjustable.

The sensitivity at 1W input measured at a distance of 1m shall be 94 dB (500 Hz to 5k Hz, pink noise). The speaker shall have a frequency response of 150 to 20k Hz (-20dB).

The specifications based on EN 54-24 measurement conditions are follows:

The sensitivity with 1W input shall be 74 dB at a distance of 4m and 89 dB at a distance of 1m converted based on EN 54-24 (100 Hz to 10k Hz, pink noise).

The maximum sound pressure level with 6W input shall be 84 dB at a distance of 4m and 96 dB at a distance of 1m converted based on EN 54-24 (100 Hz to 10k Hz, pink noise). The coverage angle (-6 dB) shall be: 180 degrees (horizontal and vertical) at 500Hz, 140 degrees (horizontal and vertical) at 1k Hz, 120 degrees (horizontal)/110 degrees (vertical) at 2k Hz and 100 degrees (horizontal)/80 degrees (vertical) at 4k Hz. The environmental type according to EN 54-24 shall be A (indoor application). The speaker baffle and cabinet shall be constructed of steel plate. The grille shall be surface-treated steel plate net. The speaker shall be available in off-white color. The unit shall have dimensions of 310 (W) x 190 (H) x 87.2 (D) mm (12.2" x 7.48" x 3.43"), and a weight of 2.6 kg (5.73 lbs.).

The wall-mount speaker shall be a TOA model BS-680FC.