

L-VBM20A/EN(C)&582483 L-VBM20A/EN&582475 Bidirectional projection loudspeaker

* L-VBM20A/EN(C)&582483 is supplied with capacitor for line monitoring



This loudspeaker is a high-performance 20 W voice alarm bidirectional projection loudspeaker. It provides a broad frequency response range, low distortion and high sound pressure level for accurate and intelligible broadcast of evacuation messages and high quality sound reproduction. It can be used in indoor, outdoor, dry, or wet applications, providing reliable operations over wide temperature and humidity ranges. Bidirectional loudspeaker is the best choice for applications such as tunnel, gallery and shopping arcade.

This voice alarm bidirectional projection loudspeaker complies with BS 5859 part 8 and EN54 part 24.

Technical Specifications

Electrical

Max power	30 W
Rated power	20 W (10 W x 2)
Power tapping	20 W / 10 W / 5 W / 2.5 W
Sensitivity (1W/4m, 100Hz~10kHz)	75 dB
SPL(1W/1m, 100Hz~10kHz)	87 dB
SPL(20W/4m, 100Hz~10kHz)	87 dB
Frequency response (-10 dB)	150 Hz ~ 20k Hz
Rated input voltage	100 V / 70 V
Rated impedance	500 Ω / 1k Ω / 2k Ω / 4k Ω
Connection	fire-resistant cable

Mechanical

Dimensions	140 mm x 140 mm x 195 mm
Weight	3.23 kg
Color	RAL9003
Speaker size	5.25" x 2

Environmental

Operating temperature	-25°C to +55°C
Storage temperature	-40°C to +70°C
Relative humidity	<95%

* The reference axis is perpendicular to the centre point of the front grille
 * The reference plane is perpendicular to the centre of the reference axis
 * The horizontal plane is perpendicular to the centre of the reference plane
 * The spec/data was measured using a standard baffle mounting in an anechoic chamber as described in EN54-24



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- Intelligible voice and superior sound reproduction
- Ceiling or wall mount
- Meets virtually any outdoor requirements
- Complies with EN54-24 standard

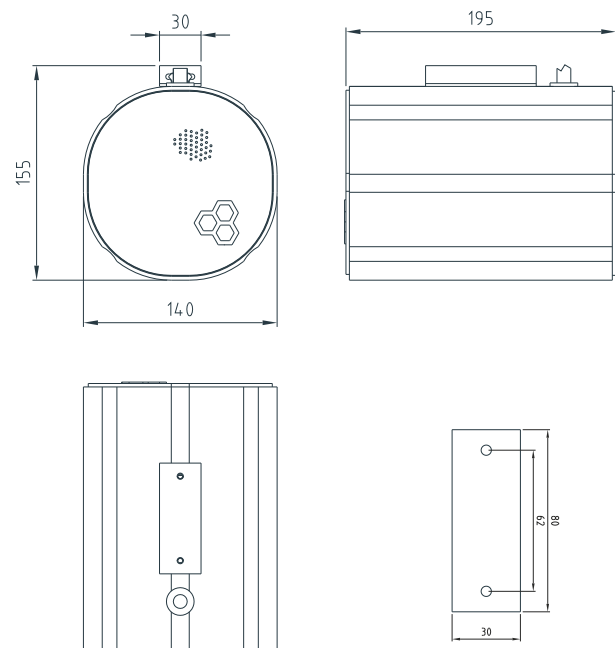
Installation/Configuration Notes

Mounting

This bidirectional loudspeaker can directly installed in the ceiling and wall.

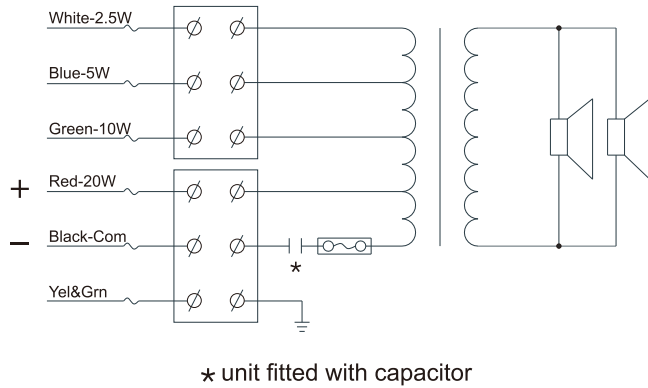
Power setting

The product comes with a one-meter, fire-resistant six-core cable already attached to the ceramic connector. The cable is a bundle of wires color-coordinated corresponding to the different power taps of the transformer. The cable connector is mounted on the back cover for easy installation.



Dimensions in mm

Circuit Diagram

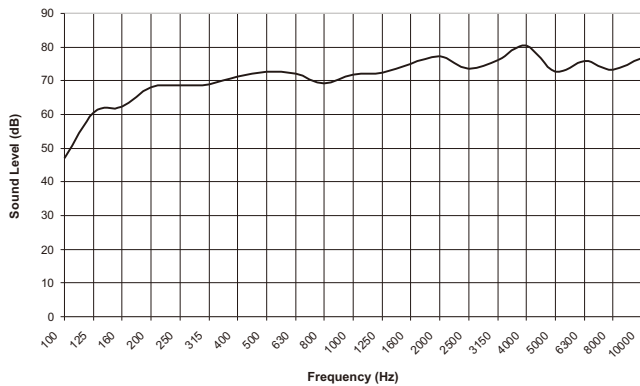


With transformer: 100V/70V line

	Red	Green	Blue	White	Black
100V	20W	10W	5W	2.5W	Com
70V	10W	5W	2.5W	1.25W	Com
IMP(Ω)	500	1K	2K	4K	

Frequency Response

Frequency Response at 100 volt/4m, 1/3 oct smoothing

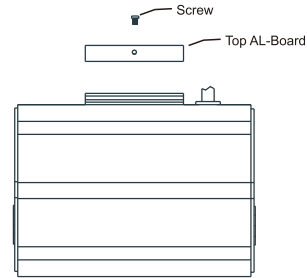


Dispersion angles

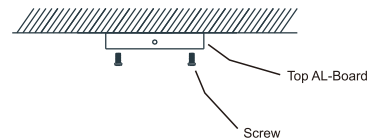
		Horizontal	Vertical
1 oct. pink noise	500 Hz	128°	127°
1 oct. pink noise	1k Hz	161°	162°
1 oct. pink noise	2k Hz	148°	111°
1 oct. pink noise	4k Hz	59°	56°

Installation Instructions

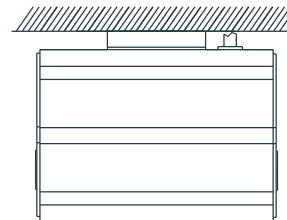
1. Remove loudspeaker from the carton. Use the hex wrench provided to remove the aluminum mounting piece from the bracket.



2. Secure aluminum mounting piece to ceiling or wall with screws.



3. Align and slide the loudspeaker to the aluminum mounting piece and then tighten screws with the hex wrench.



Honeywell

hav.international@honeywell.com

www.honeywellav.com

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Data subject to change without notice