

BD 5EN

BIDIRECTIONAL SOUND PROJECTOR

DESCRIPTION

BD 5EN is a weatherproof bidirectional sound projector suitable for all those installations where high intelligibility for alarm messages broadcasting and great sound reproduction quality are required. Thanks to its IP65 protection grade, it can be installed both indoor and outdoor. Moreover, a modern and endearing design makes it the perfect product for environments where projectors are intended also as architectural elements and contribute to improve global aesthetics.



FEATURES

- 2 x 5" fullrange transducers.
- Power selectable (100 V): 20 W – 10 W – 5 W – 2.5 W.
- 86 dB sensitivity.
- Colour white RAL 9016.
- Flameproof ABS body, steel grille.
- In/out ceramic terminal block.
- Thermal fuse protection.
- Protection grade IP65.

TECHNICAL SPECIFICATIONS

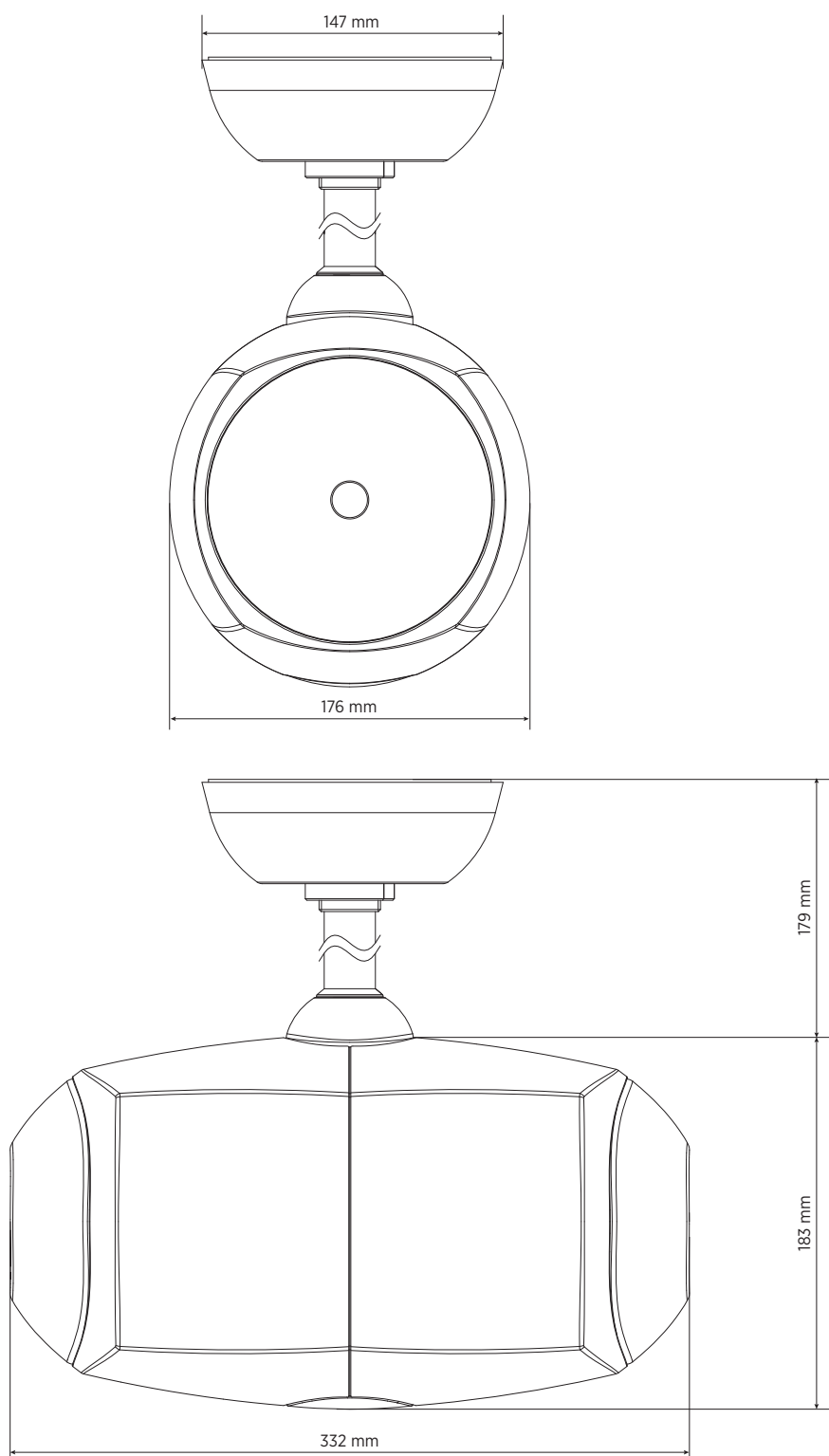
Acoustical specifications	Frequency Response (-10dB):	150 Hz ÷ 18000 Hz
	Max SPL @ 1m:	99 dB
	Max SPL @ 4m:	87 dB
	Coverage angle:	210°
	System Sensitivity:	86 dB
	System Sensitivity 1W @ 4m:	74 dB
Power section	Amplification:	Full Range
	Power Handling:	20 W
	Peak Power Handling:	80 W PEAK
	Protections:	Thermal fuse
	Recommended Amplifiers:	DMA 504, DMA 162, DMA 162P, DXT 3000, DXT 4000, DXT 7000
Transducers	Fullrange:	2 x 5.0"
Input/Output section	Input connectors:	Ceramic screw terminals
	Output connectors:	Ceramic screw terminals
	Constant Voltage Transformer:	100 V
	Power selection 1:	20 W - 500 ohm
	Power selection 2:	10 W - 1000 ohm
	Power selection 3:	5 W - 2000 ohm
Standard compliance	Power selection 4:	2.5 W - 4000 ohm
	IP protection grade:	IP 65
	Safety agency:	CE compliant
	EN54-24 certified:	Yes
Physical specifications	CPR number:	0068-CPR-058/2014
	Hardware:	Wall mount metal plate
	Color:	White - RAL 9016
Size	Height:	183 mm / 7.2 inches
	Width:	332 mm / 13.07 inches
	Depth:	176 mm / 6.93 inches
	Weight:	3.59 kg / 7.91 lbs
Shipping information	Package Height:	230 mm / 9.06 inches
	Package Width:	400 mm / 15.75 inches
	Package Depth:	380 mm / 14.96 inches
	Package Weight:	4.63 kg / 10.21 lbs

PART NUMBER

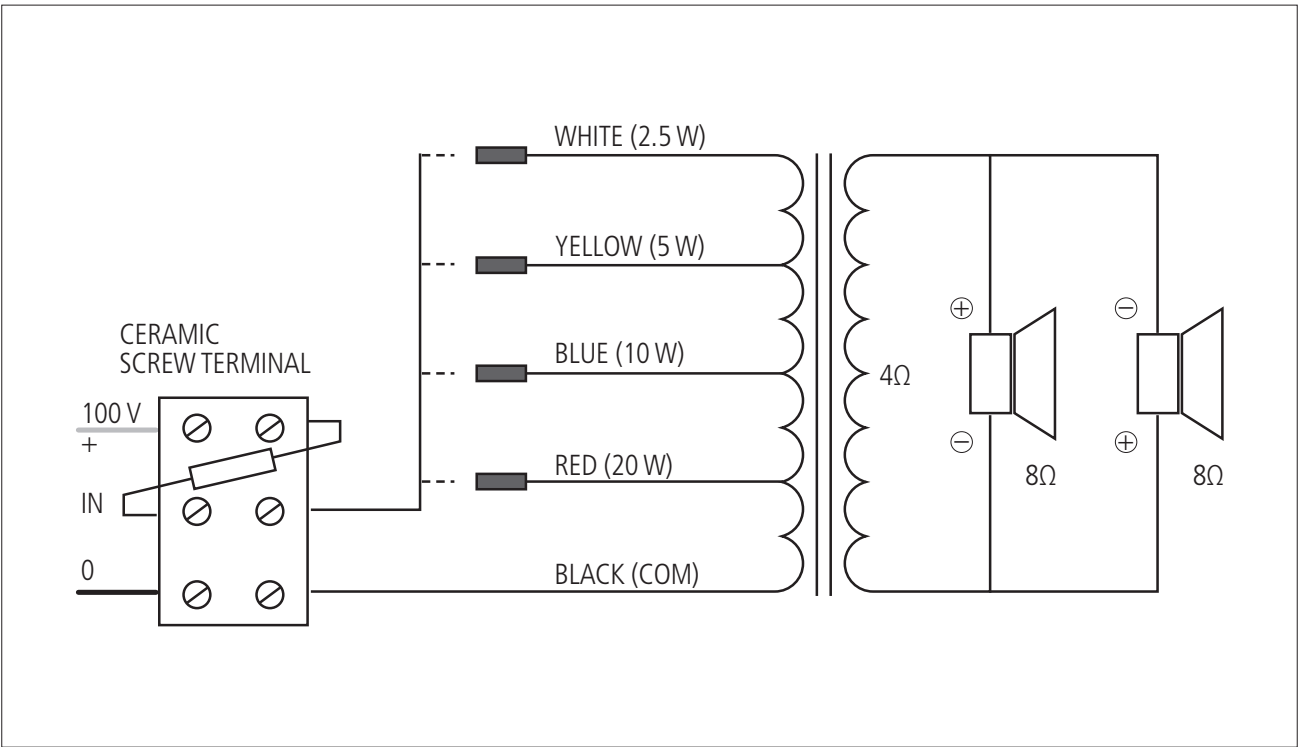
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BD 5EN

EAN 8024530011130

DRAWINGS

SCHEMATICS



BIDIRECTIONAL SOUND PROJECTOR



DESCRIPTION

BD 5EN is a 20 W weatherproof sound projector in compliance with EN 54-24 regulations.

It is suitable for all those installations where high intelligibility for alarm messages broadcasting and great sound reproduction quality are required; moreover, thanks to its IP 65 protection grade, it can be installed both indoor and outdoor.

A modern and endearing design makes it the perfect product for environments where projectors are intended also as architectural elements and contribute to improve global aesthetics.

MAIN APPLICATIONS

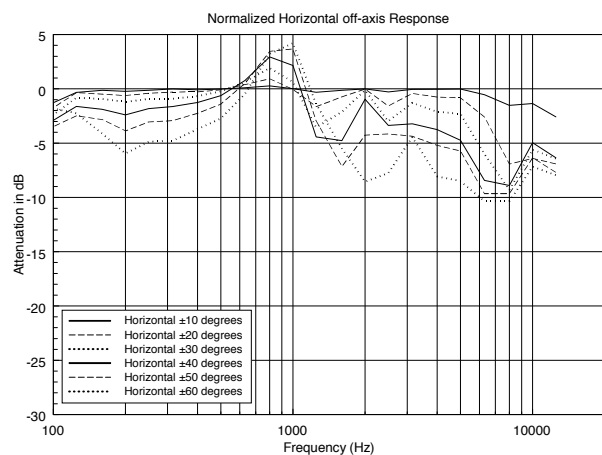
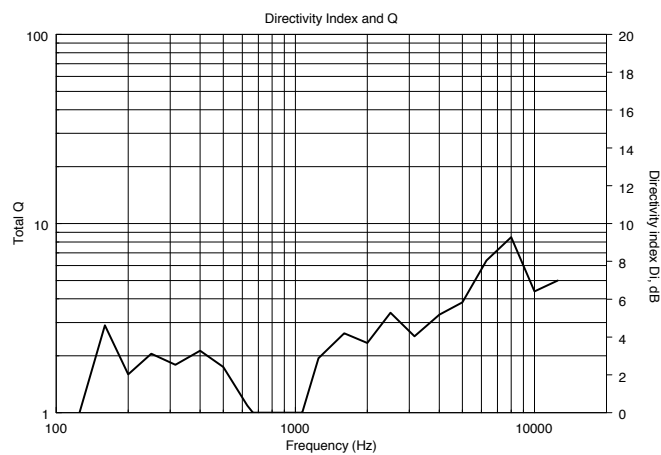
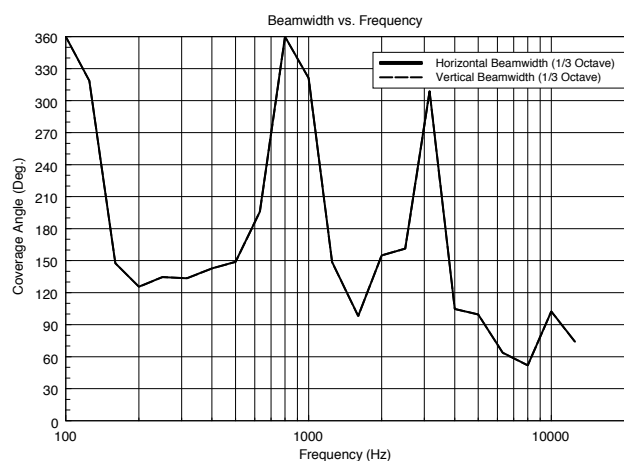
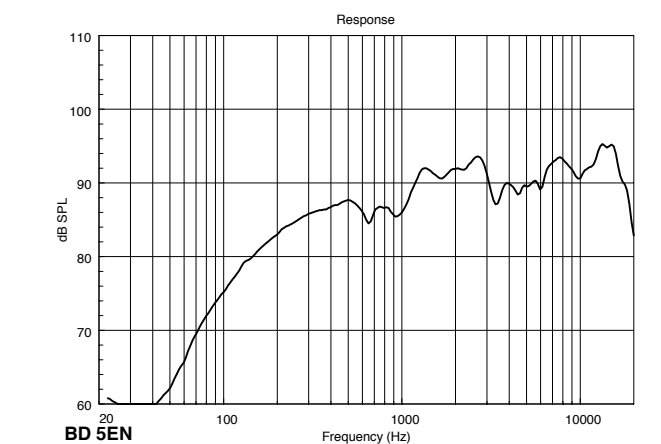
- Voice evacuation system
- Schools
- Shopping malls
- Hospital
- Museums
- Hotels
- Office building

MAIN FEATURES

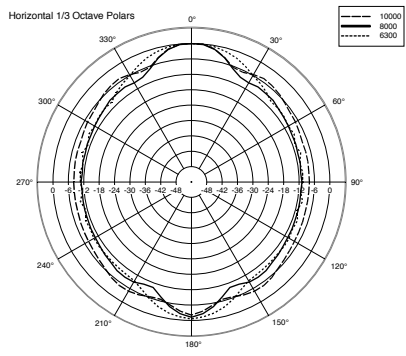
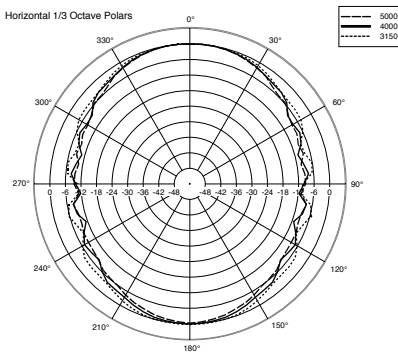
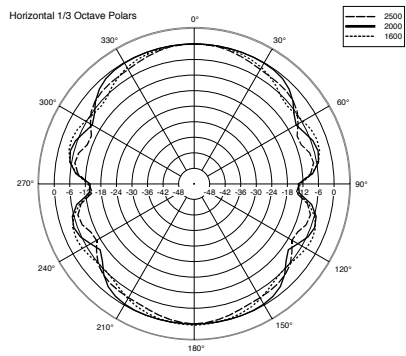
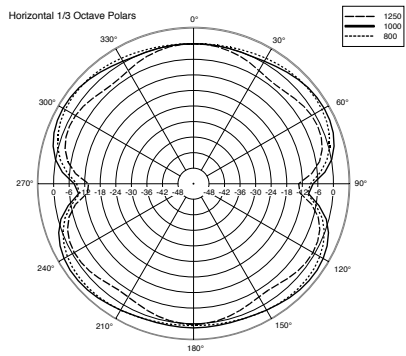
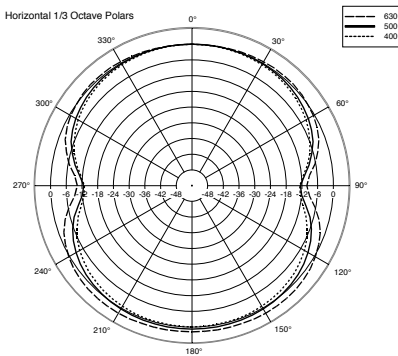
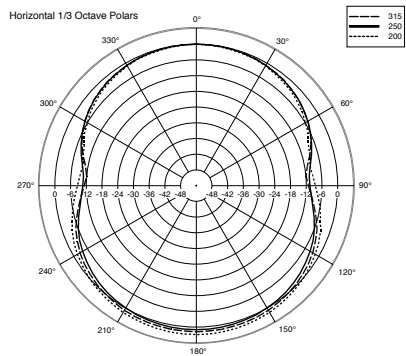
- 2 x 5" full range speakers for alarm voice messages broadcasting and high quality background music
- ABS cabinet with steel mesh grille.
- It can be installed both indoors and outdoors (IP 65 protection grade).
- Equipped with transformer for 100 V (/ 70 V) constant voltage lines.
- Internal power setting.
- Ceramic screw terminal for connection.
- Internal thermal fuse.
- Color: white.

SPECIFICATIONS

Type:	unidirectional sound projector
Transducers:	2 x 5"
Sensitivity (1 W, 1 m):	86 dB
Max. sound pressure (20 W, 1 m):	99 dB
Max. sound pressure (20 W, 4 m):	87 dB
Frequency response (–10 dB):	150 Hz ÷ 18 kHz
Horizontal coverage:	130° (in both directions)
Power taps (100 V):	20 – 10 – 5 – 2.5W
Input impedance:	500 Ω – 1 k Ω – 2 k Ω – 4 k Ω
Enclosure material:	ABS
Use:	indoor – outdoor
IP grade:	IP 65
Dimensions (without bracket):	Ø 180 mm, 340 mm
Colour:	white
Net weight:	3.5 kg



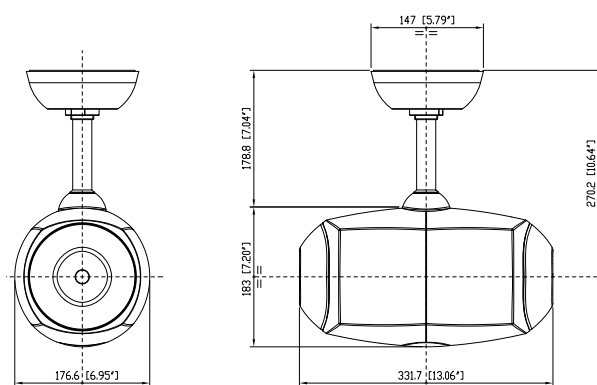
HORIZONTAL 1/3 POLAR PLOT



PART NUMBERS

131.33.077

DIMENSIONS (All data are in mm)

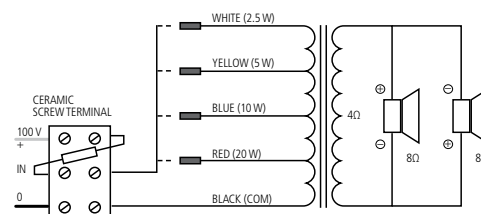


POWER SELECTION

Select the power rate by connecting only one of the four wires (coming out from the transformer primary winding) to the central screw of the ceramic terminal strip:

- 20 W, red wire
- 10 W, blue wire
- 5 W, yellow wire
- 2.5 W, white wire

If connecting to a 70 V line, the power will be halved (red: 10 W, blue: 5 W, yellow: 2.5 W, white: 1.25 W).



INSTALLATION NOTES

The BD 5EN is designed for wall-mount installation, so ensure the wall has the necessary mechanical characteristics to support the loudspeaker weight. Before installing the loudspeaker, carefully check all components to be used and make sure there is no damage, deformation, corrosion and/or missing or damaged parts that could reduce the safety of the installation.

CERTIFICATIONS AND APPROVALS

- EN 54-24:2008 compliant.



ACCESSORIES

A&E SPECIFICATIONS

The product shall be a weatherproof bidirectional sound projector suitable for broadcasting background music into commercial spaces, but also alarm messages, thanks to the highly intelligible voice reproduction and the EN 54-24 certification.

It shall have IP65 protection grade for both indoor and outdoor installations.

It shall have a modern and endearing design for environments where projectors are intended also as architectural elements and contribute to improve global aesthetics.

The terminal connection blocks, for input and output flameproof cables, shall be made of ceramic material. A thermal fuse shall protect the line integrity in case of heat affecting the speaker.

NOTES

NO CAUTION is NECESSARY in case of ALERTED PERSON for AUDIO voltages up to 120V, when warning symbols are present near the connection terminals. In the case of AUDIO voltages up to 71V, it is not even necessary to put warning symbols.

No need of linking to earth metal parts of speakers equipped with transformers and connected to 70.7 V / 100 V outputs of power amplifiers that do not have any reference to earth (ref. EN 62368-1 item 4.3.2.2), unless specific local requirements.