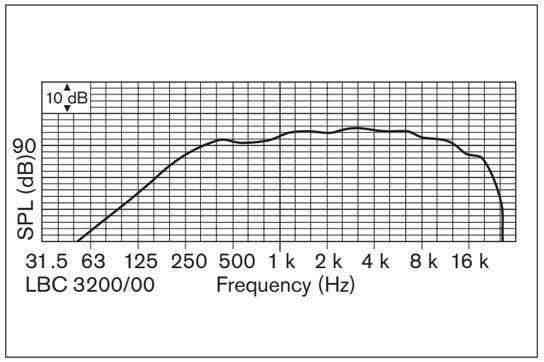
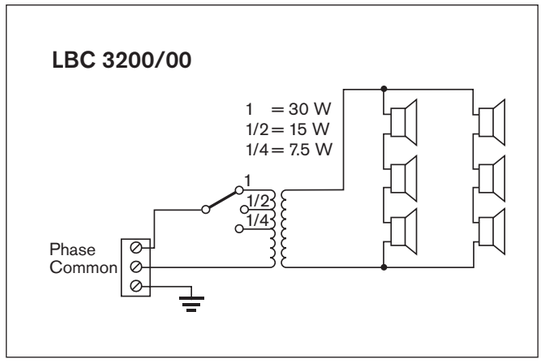
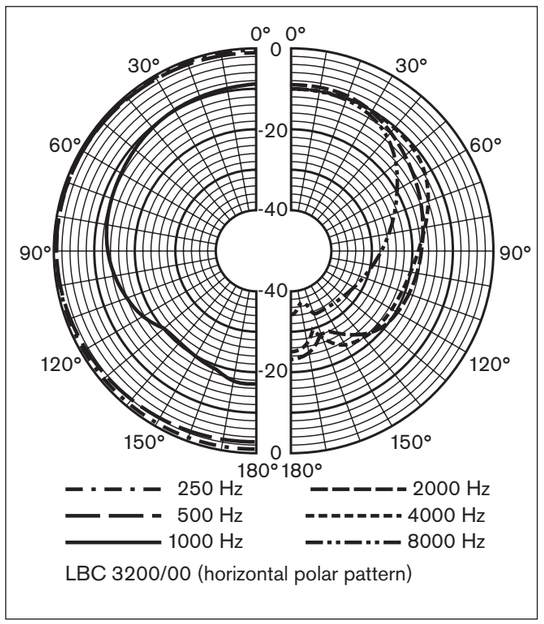


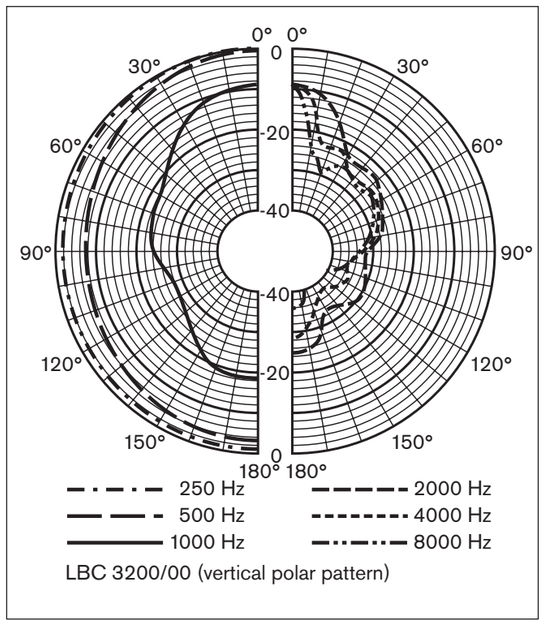
Frequency response



Circuit diagram



Polar diagram horizontal (measured with pink noise)



Polar diagram vertical (measured with pink noise)

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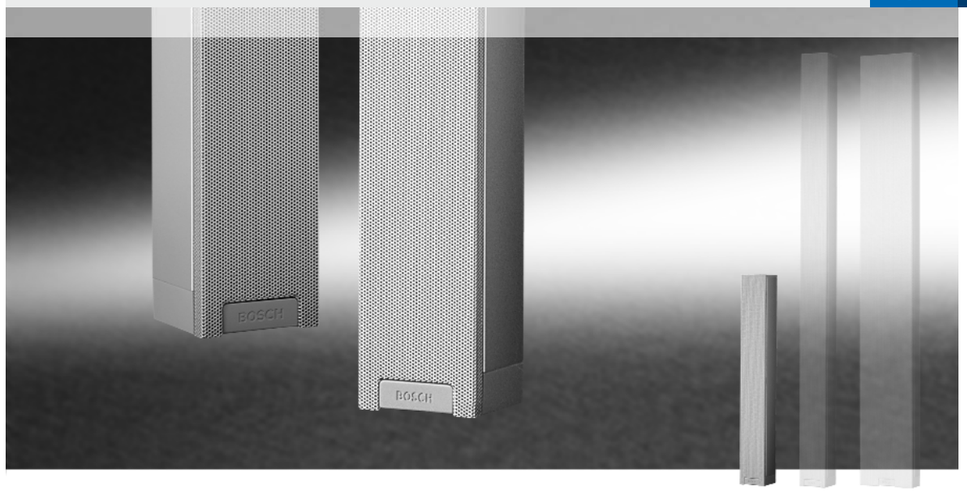
Datasheet | Line Array Loudspeaker | LBC 3200/00

XLA 3200
LBC 3200/00
30 W

Security Systems



- Extended listening area
- Excellent intelligibility of speech and music
- Uniform distribution of natural sound throughout the room
- Suitable for any small to medium venues, from canteens to meeting rooms
- Ultra-slim housing
- Voice evacuation compliant as standard
- Ideal combination of advanced acoustics and easy application
- Unrivalled sound quality for its size

LBC 3200/00
This loudspeaker, with its good directivity, can handle small and medium indoor environments like congress venues, meeting rooms, showrooms and canteens. The full frequency range of the LBC 3200/00 makes it ideal for speech as well as music reproduction. Its exceptionally narrow housing (only 8 cm wide) means it is extremely unobtrusive.

Acoustically advanced
The LBC 3200/00 is part of the XLA 3200 (eXtended Listening Area) range of line array loudspeakers. Filtering and positioning of the loudspeaker drivers* has resulted in greatly improved audio directivity. The specially developed high quality drivers enables reproduction of remarkably clear, natural sound which gives excellent intelligibility of both speech and music.
Greater coverage is achieved, so more people can be reached with perceptual perfect sound.
All the above, makes this small line array loudspeaker very suitable for use in small to medium sized applications.

*patent pending

Larger opening angles
Positioning of the loudspeaker drivers in the array generates larger vertical opening angles for high frequencies, so there is less narrow 'beaming' of higher tones. As an example, at 4 kHz the vertical opening angle is still 18°. Having larger vertical opening angles makes installation easier, as the positioning of the loudspeakers is less critical because they cover a wider area.

An extremely wide horizontal opening angle of 140° at 4 kHz means that a single loudspeaker can provide natural sound reproduction over an extensive listening area.

Suppressed acoustic side lobes
All conventional column loudspeakers produce a main lobe of sound, which is directed at listeners, and a number of unwanted side lobes. The LBC 3200/00 has highly suppressed side lobes in the vertical plane, typically at least

Communication you can rely on

BOSCH

10 dB suppression from the 500 Hz octave band at 90°, resulting in a much clearer, less 'colored' sound and strongly reduced risks for acoustic feedback.

Greater efficiency

The positioning and very high quality of the 2 -inch drivers contribute significantly in making the LBC 3200/00 a very efficient line array. With a sound pressure level of 108 dB at 1 m, at 30 W, loud and clear sound reproduction is possible even at a significant distance from the loudspeaker.

Frequency response

The high-quality loudspeaker drivers used in the LBC 3200/00 give excellent, natural sound reproduction of frequencies ranging from 190 Hz to 18 kHz. This ensures that all important frequencies for superb speech intelligibility are heard in the listening area.

Simplified and sturdy mounting

A wall bracket for mounting the line array onto walls and pillars is standard supplied.
This is fully adjustable in two perpendicular planes for accurate positioning.
For tempory installations, the LBC 3200/00 may be mounted on a LBC 1259/00 floorstand with an M10 threaded bolt without additional accessories.

Simple power setting

A three-way ceramic terminal block with screw connections suitable for loop-through wiring is located in a compartment at the base of the loudspeaker. There is also a switch which allows the selection of nominal full power (30 W), half power (15 W) or quarter power (7.5 W). The compartment has knock-out slots for accommodating cables.

Safety and evacuation compliant

In common with all Bosch Security Systems products, the LBC 3200/00 meets high safety standards. It complies with EN 60065, and is CE approved . It is also fully voice evacuation compliant (EVAC) according to BS 5839 part 8 and IEC 60849.

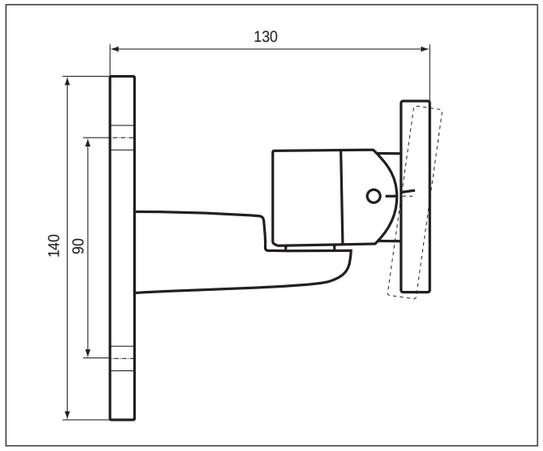
The loudspeakers ceramic terminal block, thermal fuse and heat-resistant, high-temperature wiring ensures that, in the event of a fire, damage to the loudspeaker does not result in failure of the circuit to which it is connected. In this way, system integrity is maintained, ensuring loudspeakers within the same loudspeaker zone in other areas can still be used to inform people of the situation.

Quality assurance

All Bosch loudspeakers are designed to withstand operation at their rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. These loudspeakers also comply with the Simulated Acoustical Feedback Exposure (SAFE) test, which demonstrates that they can withstand acoustical feedback at full power for short durations. This ensures extra reliability under extreme conditions, leading to higher customer satisfaction, longer operating life and much less chance of failure or performance deterioration.

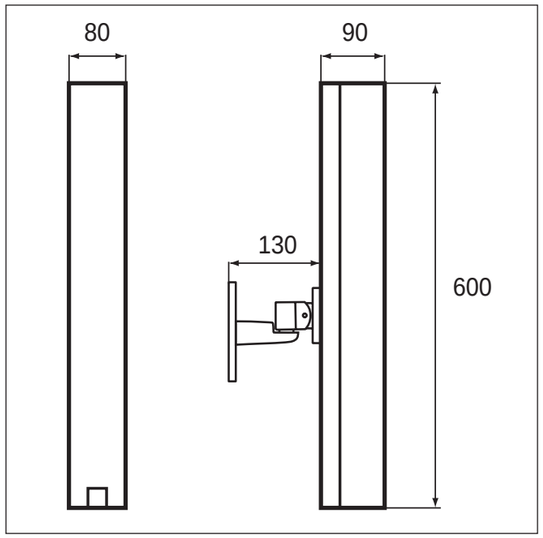
Technical performance data	
Maximum power	45 W
Rated power	30 W (30-15-7.5 W)
Sound pressure level at	
30 W/1 W (at 1 kHz, 1 m)	108 dB/93 dB (SPL)
Effective frequency range (-10 dB)	190 Hz to 18 kHz
Opening angle	
(at 1 kHz/4 kHz, -6 dB)	
Horizontal	180° /140°
Vertical	70° /18°
Rated input voltage	100 V
Rated impedance	333 ohm
Ambient temperature range	-25°C to +55°C
Safety	according to EN 60065
Ball proof	according to DIN 18032-3
Connection	screw terminal block
Dimensions (H x W x D)	600 x 80 x 90 mm
Colour	silver
Weight	3 kg

Datasheet | Line Array Loudspeaker | LBC 3200/00



Mounting bracket (included) with marked angle. Dimensions (in mm)

Detail mounting bracket



Dimensions (in mm)

Mounted on optional loudspeaker stand (LBC 1259/00)