

Architects and engineering specifications

30 W Line Array Loudspeaker LBC 3200/00

This line array loudspeaker shall be suitable for use in small- to medium-sized indoor environments. It shall be suitable for both speech and music reproduction. It shall offer a high level of audio directivity with highly suppressed side lobes. It shall provide uniform sound distribution throughout the listening area. It shall provide a horizontal opening angle of 140° at 4 kHz, and a vertical opening angle of 18°. It shall provide a sound pressure level of 108 dB at a frequency of 1 kHz at a distance of 1 m with an input power of 30 W. It shall have an effective frequency range of 190 Hz to 18 kHz.

The loudspeaker shall comply with EN 60065, and shall be CE approved. It shall be fully voice evacuation compliant (EVAC) according to BS 5839 part 8 and IEC 60849. The loudspeaker shall have built-in protection to ensure that, in the event of a fire, damage to the loudspeaker does not result in failure of the circuit to which it is connected. The loudspeaker shall have a ceramic terminal block, thermal fuse and heat-resistant, high-temperature wiring.

The loudspeaker shall be able to withstand operation at its rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. It shall comply with the Simulated Acoustical Feedback Exposure (SAFE) test, which demonstrates that it can withstand acoustic feedback at full power for short durations.

A mounting bracket shall be supplied with the loudspeaker to simplify mounting. The loudspeaker shall be supplied with all necessary accessories for mounting on a wall, or floorstand with M10 threaded bolt.

In a compartment at the base of the loudspeaker there shall be a three-way ceramic terminal block with screw connections for loop-through wiring. There shall also be a switch for selecting nominal full power (30 W), half power (15 W) or quarter power (7.5 W). The compartment shall have knock-out slots for accommodating cables.

It shall have a rated power of 30 W, and a maximum power of 45 W. The rated input voltage shall be 100 V, and the rated impedance shall be 333 ohm. The loudspeaker shall operate within an ambient temperature range of -25 to +55° C. It shall be ball proof to DIN 18032-3. The loudspeaker enclosure shall be 600 mm high, 80 mm wide and 90 mm deep. It shall be silver in color. The loudspeaker shall weigh 3 kg.

The 30 W line array loudspeaker shall be the LBC 3200/00 from Bosch Security Systems.

60 W Line Array Loudspeaker LBC 3201/00

This line array loudspeaker shall be suitable for use in medium- to large-sized indoor (reverberant) environments. Sound quality shall not be compromised by hard walls and other reflective surfaces because of the excellent directivity and low spill outside the listening area. It shall be suitable for both speech and music reproduction. It shall offer a high level of audio directivity, with highly suppressed side lobes. It shall provide uniform sound distribution and provide constant directivity for all relevant frequencies throughout the listening area. It shall provide a horizontal opening angle of 140° at 4 kHz, and a vertical opening angle of 20°. It shall provide a sound pressure level of 110 dB at a frequency of 1 kHz at a distance of 1 m with an input power of 60 W. It shall have an effective frequency range of 190 Hz to 18 kHz.

The loudspeaker shall comply with EN 60065, and shall be CE approved. It shall be fully voice evacuation compliant (EVAC) according to BS 5839 part 8 and IEC 60849. The loudspeaker shall have built-in protection to ensure that, in the event of a fire, damage to the loudspeaker does not result in failure of the circuit to which it is connected. The loudspeaker shall have a ceramic terminal block, thermal fuse and heat-resistant, high-temperature wiring.

The loudspeaker shall be able to withstand operation at its rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. It shall comply with the Simulated Acoustical Feedback Exposure (SAFE) test, which demonstrates that it can withstand acoustical feedback at full power for short durations.

A chart and mounting bracket shall be supplied with the loudspeaker to simplify mounting. The chart shall show the relationship between the area the loudspeaker is required to cover and the height the loudspeaker should be mounted at for optimum coverage of this area. The loudspeaker shall then be mounted at an angle marked on the mounting bracket. The loudspeaker shall be supplied with all necessary accessories for mounting on a wall, or floorstand with M10 threaded bolt.

In a compartment at the base of the loudspeaker there shall be a three-way ceramic terminal block with screw connections for loop-through wiring. There shall also be a switch for selecting nominal full power (60 W), half power (30 W) or quarter power (15 W). The compartment shall have knock-out slots for accommodating cables.

It shall have a rated power of 60 W, and a maximum power of 90 W. The rated input voltage shall be 100 V, and the rated impedance shall be 167 ohm. The loudspeaker shall operate within an ambient temperature range of -25 to +55° C. It shall be ball proof to DIN 18032-3. The loudspeaker enclosure shall be 1200 mm high, 80 mm wide and 90mm deep. It shall be silver in color. The loudspeaker shall weigh 6.4 kg.

The 60 W line array loudspeaker shall be the LBC 3201/00 from Bosch Security Systems.

60 W Line Array Loudspeaker LBC 3210/00

This line array loudspeaker shall be suitable for use in large (reverberant) indoor and outdoor environments. It shall be suitable for both speech and music reproduction. It shall offer a high level of audio directivity, with highly suppressed side lobes. It shall provide uniform sound distribution and provide constant directivity for all relevant frequencies throughout the listening area. It shall provide a horizontal opening angle of 118° at 4 kHz, and a vertical opening angle of 17°. It shall provide a sound pressure level of 115 dB at a frequency of 1 kHz at a distance of 1 m with an input power of 60 W. It shall have an effective frequency range of 190 Hz to 20 kHz.

The loudspeaker shall comply with EN 60065, and shall be CE approved. It shall be fully voice evacuation compliant (EVAC) according to BS 5839 part 8 and IEC 60849. The loudspeaker shall have built-in protection to ensure that, in the event of a fire, damage to the loudspeaker does not result in failure of the circuit to which it is connected. The loudspeaker shall have a ceramic terminal block, thermal fuse and heat-resistant, high-temperature wiring.

The loudspeaker shall be able to withstand operation at its rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. It shall comply with the Simulated Acoustical Feedback Exposure (SAFE) test, which demonstrates that it can withstand acoustic feedback at full power for short durations.

A chart and mounting bracket shall be supplied with the loudspeaker to simplify mounting. The chart shall show the relationship between the area the loudspeaker is required to cover and the height the loudspeaker should be mounted at for optimum coverage of this area. The loudspeaker shall then be mounted at an angle marked on the mounting bracket. The loudspeaker shall be supplied with all necessary accessories for mounting on a wall, or floorstand with M10 threaded bolt.

In a compartment at the base of the loudspeaker there shall be a three-way ceramic terminal block with screw connections for loop-through wiring. There shall also be a switch for selecting nominal full power (60 W), half power (30 W) or quarter power (15 W). The compartment shall have knock-out slots for accommodating cables.

It shall have a rated power of 60 W, and a maximum power of 90 W. The rated input voltage shall be 100 V, and the rated impedance shall be 167 ohm. The loudspeaker shall operate within an ambient temperature range of -25 to + 55° C. It shall be ball proof to DIN 18032-3. It shall be protected against water and dust according to IEC 60529 IP 66. The loudspeaker enclosure shall be 1200 mm high, 160 mm wide and 90 mm deep. It shall be silver in color. The loudspeaker shall weigh 9 kg.

The 60 W line array loudspeaker shall be the LBC 3210/00 from Bosch Security Systems.