



LBC 3941/11 Sound Projector



The LBC 3941/11 is a 6 W cost-effective sound projector. It features a very wide opening angle and unobtrusive styling. Water and dust protection to IP65 make it suitable for indoor and outdoor use.

Functions

The sound projector features a very wide opening angle (90 degrees) which means fewer units are required to cover a given area. Its wide frequency range also results in better speech and music reproduction, while the directivity ensures that the sound is accurately projected to where it is needed most.

The LBC 3941/11 sound projector is finished in an attractive off-white RAL color, and its unobtrusive appearance complements today's interior lighting. The color and styling of the front grille matches an existing Bosch ceiling loudspeaker (LBC 3951/11).

Certifications and Approvals

All Bosch loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. Bosch has also developed the Simulated Acoustical Feedback Exposure (SAFE) test to demonstrate that they can withstand two times their

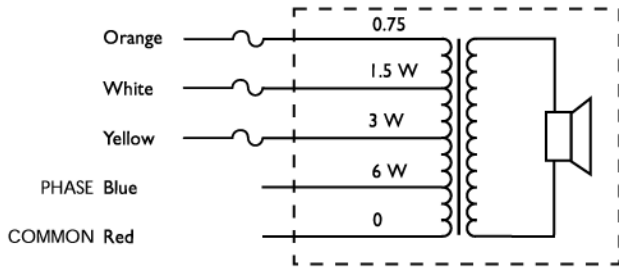
- ▶ Excellent speech and music reproduction
- ▶ Very wide opening angle
- ▶ Modern unobtrusive styling
- ▶ Simple power setting
- ▶ Splash – waterproof
- ▶ Compact yet powerful
- ▶ Complies with international installation and safety regulations

rated 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. The enclosures are made from high-impact self-extinguishing ABS (acc. to class UL 94V0).

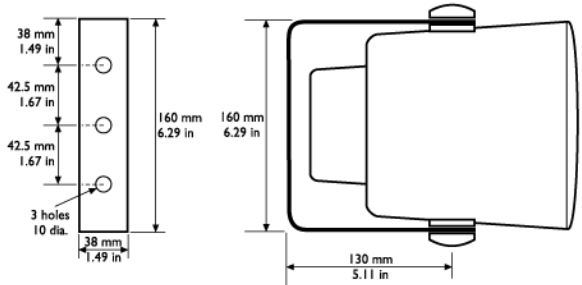
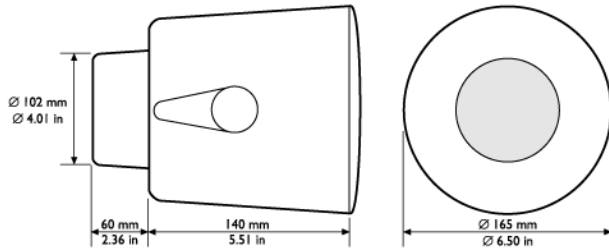
Safety	EN 60065.
Water protected	acc. to EN 60529 IP65
Self-Extinguishing	acc. to UL 94V0

Installation/Configuration Notes

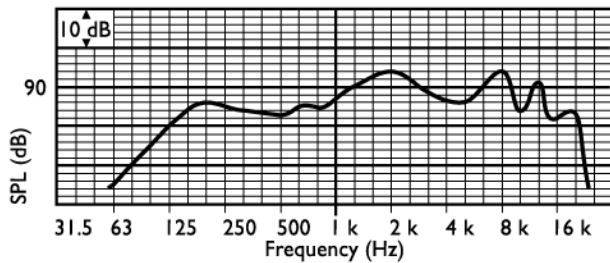
The sound projector is supplied with a steel mounting bracket painted in white. The bracket has three 10 mm holes, which can be used to easily mount the projector to walls and ceilings. The direction of the projector can be adjusted by means of two screws covered with white plastic covers. The unit is supplied with a 2 m color-coded five-core cable, with each color connected to a different primary tap on the matching transformer. This makes it easy to select full-power, half-power, quarter-power and eighth-power radiation without opening the unit during installation.



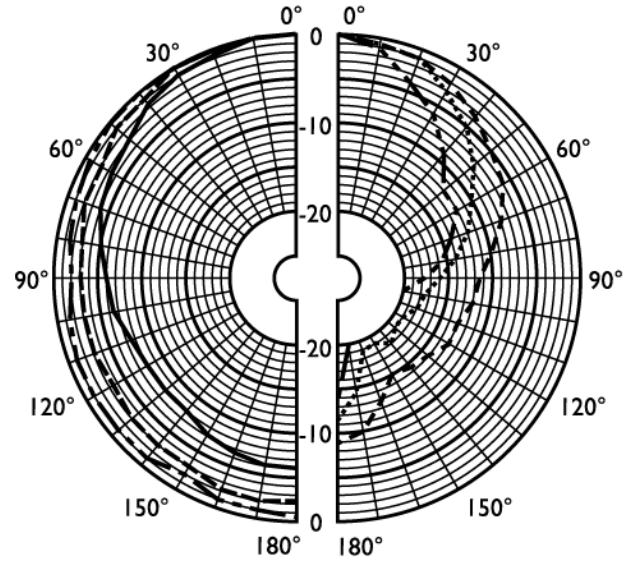
Circuit diagram



Dimensions (in mm/in)



Frequency response



Polar diagram (measured with pink noise)

Octave band (Hz)	125	250	500	1k	2k	4k	8k
SPL 1.1	82	84	83	88	92	88	88
SPL max.	90	92	91	96	100	96	96
Q-factor	1.2	1.2	1.6	2.9	5.1	8.5	18
Efficiency	0.17	0.26	0.16	0.28	0.39	0.09	0.04
H. angle	360	360	360	180	120	90	60
V. angle	360	360	360	180	120	90	60

Quick reference table

Parts Included

Quantity	Components
1	LBC 3941/11 Sound Projector

Technical Specifications

Electrical*

Maximum Power	9 W
Rated Power (PHC)	6 W (6 - 3 - 1.5 - 0.75 W)
Sound Pressure Level at 6 W/1 W (at 1 kHz, 1 m)	96 dB / 88 dB (SPL)
Opening Angle (at 1 kHz/4 kHz, -6 dB)	180° / 90°
Effective Frequency Range	130 Hz to 18 kHz (-10 dB)
Rated Voltage	100 V
Rated Impedance	1667 ohm
Speaker Size	100 mm (4 inch)
Magnet Weight	3.57 oz

Mechanical

Cable	5-wire
Length	2 m (78.75 inch)

Dimensions

Diameter	165 mm (6.50 inch)
Length	200 mm (7.87 inch)
Color	white (RAL 9010)
Weight	1.5 kg (3.3 lb)

Environmental

Ambient Temperature	-25°C to +55 °C
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*) Technical performance data acc. to IEC 60268-5

Ordering Information

Model | Description

LBC 3941/11 Sound Projector

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