

LBC3941/12 Sound projector, 6W

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Invented for life



- ▶ Excellent speech and music reproduction
- ▶ Very wide opening angle
- ▶ Modern unobtrusive styling
- ▶ Simple power setting
- ▶ Water- and dust protected to IP 65

The LBC3941/12 is a 6 W cost-effective sound projector. It features a very wide opening angle and unobtrusive styling. Water and dust protection to IP 65 make it suitable for indoor and outdoor use.

Functions

The sound projector features a very wide opening angle 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 LBC3941/12 sound projector is finished in an attractive white color, and its unobtrusive appearance complements today's interior lighting. The color and styling of the front grille matches an existing Bosch ceiling loudspeaker (LBC3951/12).

Certifications and approvals

Quality assurance

All Bosch loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 60268-5 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 rated power for short durations. This ensures

improved reliability under extreme conditions, leading to higher customer satisfaction, longer operating life, and lessens the chance of failure or performance deterioration.

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

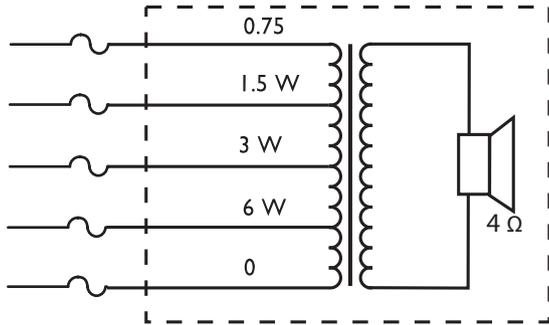
Safety	acc. to EN 60065
Water and dust protection	acc. to EN 60529, IP 65
Self-Extinguishing	acc. to UL 94 V0

Region	Regulatory compliance/quality marks	
Europe	CE	DECL EC LBC3941_12

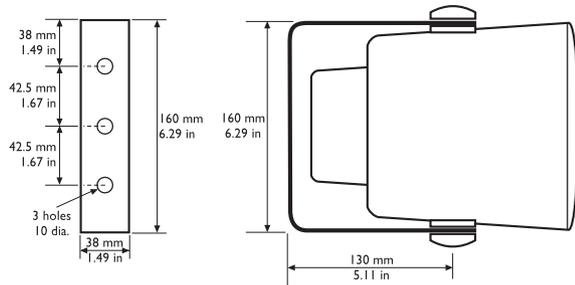
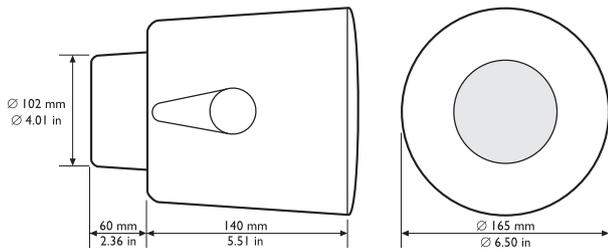
Installation/configuration notes

The sound projector is supplied with an aluminium 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

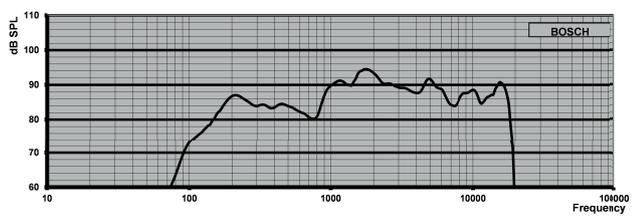
transformer. This makes it easy to select full-power, half-power, quarter-power and eighth-power radiation without opening the unit during installation.



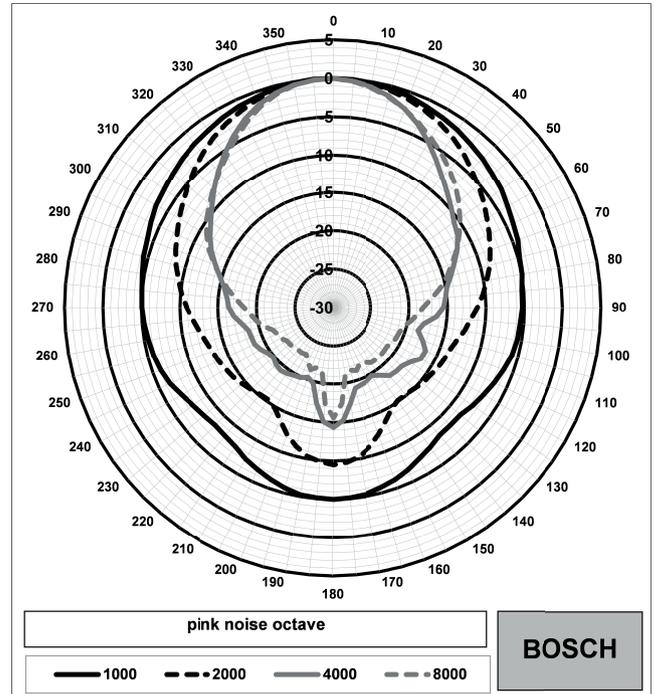
Circuit diagram



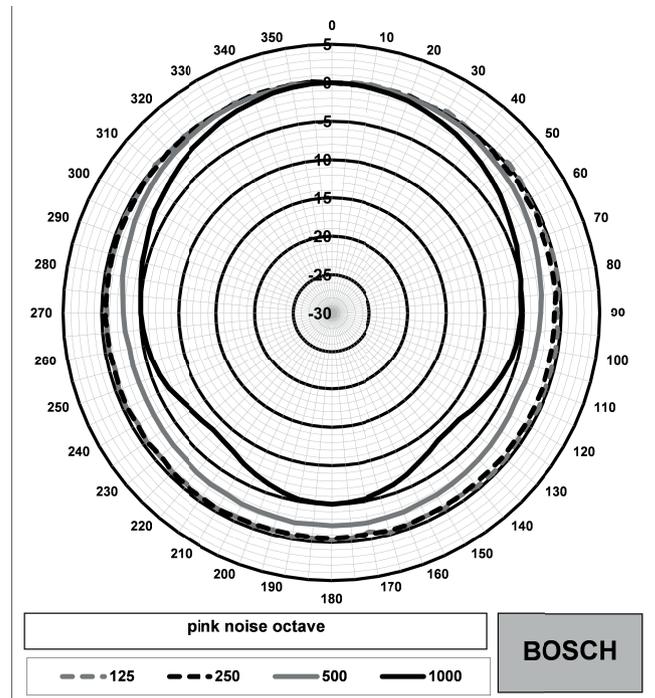
Dimensions in mm (in)



Frequency response



Polar diagram (high frequency part)



Polar diagram (low frequency part)

Octave band sensitivity*

	Octave SPL 1W/1m	Total octave SPL 1W/1m	Total octave SPL Pmax/1m
125 Hz	78.4	-	-
250 Hz	86.2	-	-

500 Hz	83.8	-	-
1000 Hz	89.2	-	-
2000 Hz	93.5	-	-
4000 Hz	91.2	-	-
8000 Hz	88.4	-	-
A-weighted	-	88.0	88.4
Lin-weighted	-	95.2	95.6

Octave band opening angles

	Horizontal	Vertical	
125 Hz	360	360	
250 Hz	360	360	
500 Hz	360	360	
1000 Hz	216	216	
2000 Hz	110	110	
4000 Hz	72	72	
8000 Hz	74	74	

Acoustical performance specified per octave.* (all measurements are done with a pink noise signal; the values are in dB SPL).

Parts included

Quantity	Component
1	LBC3941/12 Sound Projector

Technical specifications

Electrical*

Rated power	6 / 3 / 1.5 / 0.75 W
Sound pressure level at 6 W / 1 W (1 kHz, 1 m)	97 dB / 89 dB (SPL)

Sound pressure level at 6 W / 1 W (2 kHz, 1 m)	102 dB / 94 dB (SPL)
Opening angle at 1 kHz / 4 kHz (-6 dB)	180° / 90°
Effective frequency range (-10 dB)	140 Hz to 18 kHz
Rated voltage	100 V
Rated impedance	1667 ohm
Connection	2 m 5-wire cable

* Technical performance data acc. to IEC 60268-5

Mechanical

Dimensions (D x L)	165 x 200 mm (6.50 x 7.87 in)
Speaker diameter	100 mm (4 in)
Weight	1.5 kg (3.3 lb)
Color	White (RAL 9010)
Magnet weight	101 g (3.57 oz)

Environmental

Operating temperature	-25 °C to +55 °C (-13 °F to +131 °F)
Storage and transport temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

LBC3941/12 Sound projector, 6W

Sound projector 6 W, white ABS enclosure, wide opening angle, water and dust protected IP65, fixed 2 m connection cable.
Order number **LBC3941/12**

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