

LB7-UC06VR ABS cabinet loudspeaker 6 W with VR

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Invented for life



- ▶ Suitable for speech and music reproduction
- ▶ Compact size
- ▶ Integrated volume control and volume override relay
- ▶ Knock-out ports for conduit - or cable entries

This ABS cabinet loudspeaker 6 W is suitable for speech and music reproduction and is applicable for use in voice alarm systems.

The ABS rectangular cabinet is made from ABS with a metal grille front and provided with a volume control to adjust the requested volume locally, and provided with a built-in volume override relay. The built-in override relay allows emergency calls to be broadcasted at a preset level, independent of the local volume setting.

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.

Safety	According to EN 60065
Self-extinguishing	According to UL 94 V 0

Region	Regulatory compliance/quality marks	
Europe	CE	DECL EC LB7-UC06VR

Installation/configuration notes

The rectangular ABS cabinet has a removable metal front grille.

Easy to install, hidden wall mounting by using two screws supplied with the product.

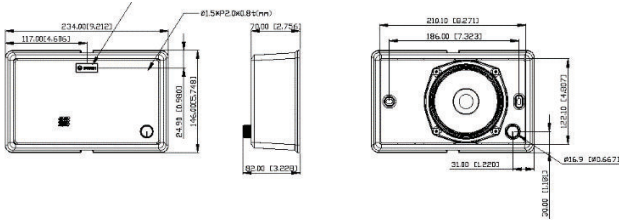
Two knock-out holes at the top- and bottom of the cabinet allow for easy entry of cable or conduct.

Two rubber grommets in matching color of the cabinet are delivered as standard.

The loudspeaker is provided with a four pole ABS screw terminal block for the 70 V or 100 V connection and the 24 VDC for powering the built-in override relay. The transformer allows selection of nominal full-power, half-power, quarter power or eight-power

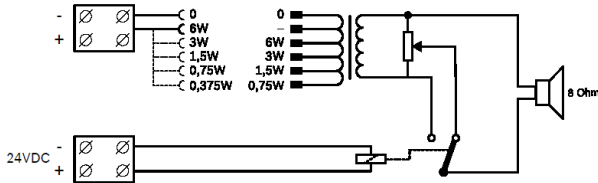
radiation (in 3 dB steps) by connecting the 70 V or 100 V line to the appropriate primary tap on the matching transformer.

After wiring and mounting the cabinet to the wall, the metal front grille can be pushed back on the cabinet. The cabinet has provisions for internally mounting the optional line/loudspeaker supervision board.

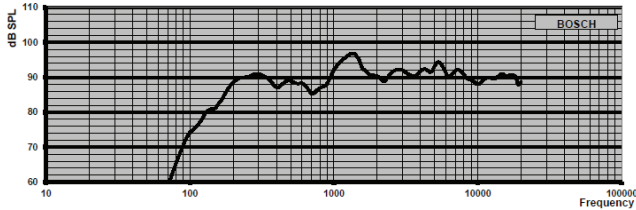


Dimensions in mm (in)

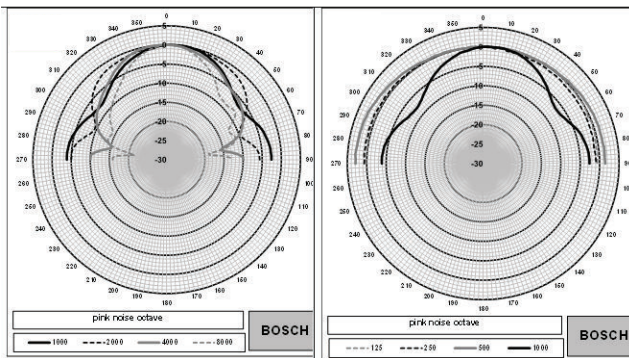
LB7-UC06VR



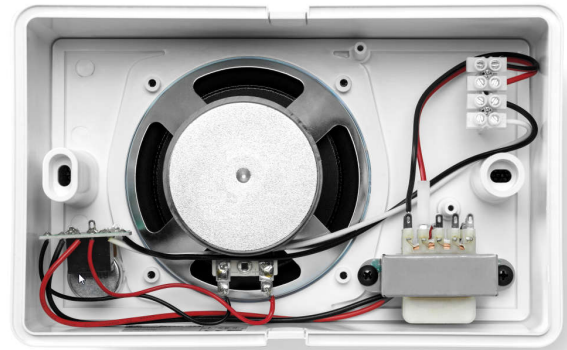
Circuit diagram



Frequency response



Polar diagrams



Rear view

Octave band sensitivity *

	Octave SPL 1W/1m	Total octave SPL 1W/1m	Total octave SPL Pmax/1m
125 Hz	79.4	-	-
250 Hz	89.6	-	-
500 Hz	87.9	-	-
1000 Hz	93.5	-	-
2000 Hz	92.2	-	-
4000 Hz	92.1	-	-
8000 Hz	89.5	-	-
A-weighted	-	89.0	96.2
Lin-weighted	-	89.4	96.8

Octave band opening angles

	Horizontal	Vertical	
125 Hz	180	180	
250 Hz	180	180	
500 Hz	180	180	
1000 Hz	180	85	
2000 Hz	104	116	
4000 Hz	84	92	
8000 Hz	64	58	

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	Cabinet loudspeaker
1	Installation instruction
2	Mounting screws (4 x 38 mm)
2	Rubber grommets

Technical specifications

Electrical*

Rated power (PHC)	6 W
Transformer taps	70 V: 6 W, 3 W, 1.5 W, 0.75 W, 0.375 W 100 V: 6 W, 3 W, 1.5 W, 0.75 W
Sound pressure level at 6 W/1 W (1 kHz, 1 m)	102 / 94 dB
Sound pressure level at 6 W/1 W (1 kHz, 4 m)	90 / 82 dB
Frequency response (-10 dB)	160 Hz to 20 kHz
Opening angle at 1 kHz / 4 kHz (-6 dB)	180°/ 85° (horizontal) 180°/ 98° (vertical)
Rated voltage	70 / 100 V
Rated impedance	835 / 1667 Ohm @ 6 W 1667 / 3333 Ohm @ 3 W 3333 / 6667 Ohm @ 1.5 W

6667 / 13333 Ohm @ 0.75 W

13363 Ohm @ 0.375 W (70 V only)

Override relay

Voltage	24 V DC
Current consumption	20 mA
Connector	2 x 2-pole ABS screw terminal block
Acceptable wire gauge	0.5 to 4 mm ²

* Technical performance data acc. to IEC 60268-5

Mechanical

Dimensions (H x W x D)	146 x 234 x 70 / 82 mm
Weight	1.15 kg
Color	White (RAL 9003)

Environmental

Operating temperature	-10°C to +55°C (14°F to +131°F)
Storage and transport temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	< 95%

Ordering information

LB7-UC06VR ABS cabinet loudspeaker 6 W with VR
 ABS cabinet loudspeaker 6 W
 Order number **LB7-UC06VR**

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