

LB7-UC06E ABS cabinet loudspeaker 6 W

www.boschsecurity.com



BOSCH
Invented for life



- ▶ Suitable for speech and music reproduction
- ▶ Compact size
- ▶ Knock-out ports for conduit - or cable entries
- ▶ EN 54-24 certified

The 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.

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.

Emergency	According to EN 54-24
Safety	According to EN 60065
Self-extinguishing	According to UL 94 V 0

Region	Regulatory compliance/quality marks	
Europe	DOP	DECL DoP EUR EN54-24 LB7-UC06E-ABS
	CE	DECL EC LB7-UC06E

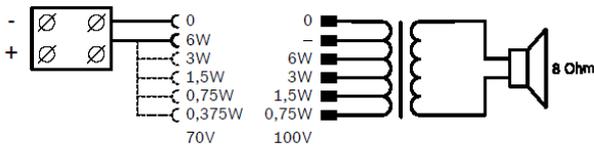
Installation/configuration notes

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 two pole ABS screw terminal block. 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.

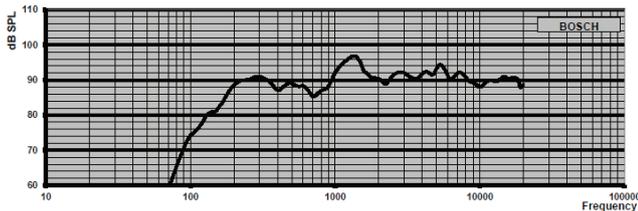


Dimensions in mm (in)

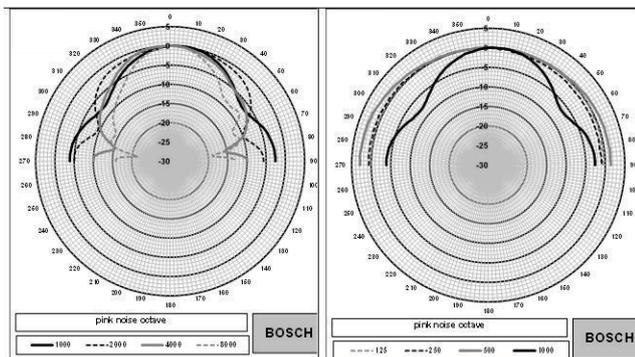
LB7-UC06E



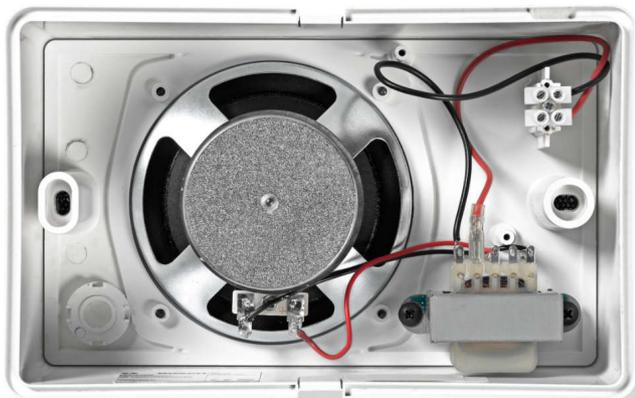
Circuit diagram



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	180
2000 Hz	130	110
4000 Hz	90	98
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)	6W
Transformer taps	70V: 6W, 3W, 1.5W, 0.75W, 0.375W 100V: 6W, 3W, 1.5W, 0.75W
Sound pressure level at 6 W/1 W (1 kHz, 1 m)	102 dB / 94 dB

Sound pressure level at 6 W/1 W (1 kHz, 4 m)	89 dB / 81 dB
Frequency response (-10 dB)	160 Hz to 20 kHz
Opening angle at 1 kHz / 4 kHz (-6 dB)	180°/ 90° (horizontal) 180°/ 98°(vertical)
Rated voltage	70/100 V
Rated impedance	835/1667 Ohm @ 6W 1667/3333 Ohm @ 3W 3333/6667 Ohm @ 1.5W 6667/13333 Ohm @ 0.75W 13333 Ohm @ 0.375W (70V only)
Connector	1 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 mm
Weight	1.08 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%

Note:

- The specification data is measured in an anechoic chamber, free field
- The reference axis is perpendicular to the center point of the front grille
- The reference plane is perpendicular to the center of the reference axis
- The horizontal plane is perpendicular to the center of the reference plane

 1438
Bosch Security Systems BV Torenallee 49, 5617 BA Eindhoven, the Netherlands 18 1438-CPR-0591
EN 54-24:2008 Loudspeaker for voice alarm systems for fire detection and fire alarm systems for buildings Cabinet Loudspeaker 6 W LB7-UC06E Type A DoP: DECL DoP EUR EN54-24 LB7-UC06E-ABS

Ordering information

LB7-UC06E ABS cabinet loudspeaker 6 W
 ABS cabinet loudspeaker 6 W
 Order number **LB7-UC06E**

Represented by:

Europe, Middle East, Africa:
 Bosch Security Systems B.V.
 P.O. Box 80002
 5600 JB Eindhoven, The Netherlands
 Phone: + 31 40 2577 284
 emea.securitysystems@bosch.com
 emea.boschsecurity.com

Germany:
 Bosch Sicherheitssysteme GmbH
 Robert-Bosch-Ring 5
 85630 Grasbrunn
 Germany
 www.boschsecurity.com

North America:
 Bosch Security Systems, Inc.
 130 Perinton Parkway
 Fairport, New York, 14450, USA
 Phone: +1 800 289 0096
 Fax: +1 585 223 9180
 onlinehelp@us.bosch.com
 www.boschsecurity.us

Asia-Pacific:
 Robert Bosch (SEA) Pte Ltd, Security Systems
 11 Bishan Street 21
 Singapore 573943
 Phone: +65 6571 2808
 Fax: +65 6571 2699
 apr.securitysystems@bosch.com
 www.boschsecurity.asia