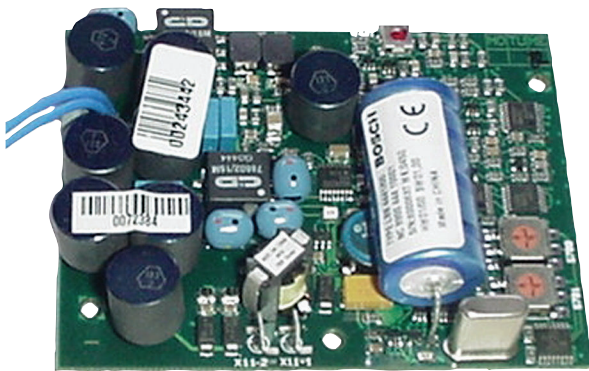


# LBB 4441/00 Loudspeaker Supervision Board

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Invented for life



- ▶ Loudspeaker and loudspeaker line monitoring without additional cabling
- ▶ Open-circuit fault detection
- ▶ Compatible with 100 V and 70 V loudspeaker lines
- ▶ Powering of the supervision-board from the power amplifier
- ▶ Communication is not affected by the audio signals on the loudspeaker line

The board monitors the integrity of a loudspeaker. It works together with the LBB 4440/00 Supervision Control Board. The speaker status is communicated to the LBB 4440/00 via the existing loudspeaker cable.

## Functions

The LBB 4441/00 is mounted inside the loudspeaker casing and communicates the status of the loudspeaker to the LBB 4440/00 Supervision Control Board via the existing loudspeaker cable. The board detects and reports loudspeaker faults within 300 s, line faults within 100 s.

## Interconnections

- Two 30 cm flying leads
- Two faston connectors

## Certifications and approvals

Safety	acc. to IEC 60065 / EN 60065
Immunity	acc. to EN 55103-2 / EN 50130-4 / EN 50121-4
Emissions	acc. to EN 55103-1 / FCC-47 part 15B

Emergency	acc. to EN 60849 / EN 54-16 / ISO 7240-16
Maritime	acc. to IEC 60945

Region	Certification	
Europe	CPR	EU_CPR
	CE	
	CE	COC
	CE	CertAlarm
	CE	DOP
	GL	

## Installation/configuration notes

The following loudspeakers have a provision for installing a supervision board:

Ceiling loudspeakers	Column loudspeakers	Sound projectors
LC1-WM06E	LBC 3210/00	LBC 3432/02
LC1-UM06E	LA1-UM20E-1	LS1-OC100E-1
LC1-UM12E	LA1-UM40E-1	

LC1-UM24E	<b>Horn loudspeakers</b>	
LBC 3510/40	LBC 3403/16	
LBC 3520/40	LBC 3404/16	
LBC 3530/40	LBC 3405/16	
<b>Cabinet loudspeakers</b>	LBC 3406/16	
LBC 3011/41	LH1-10M10E	
LBC 3011/51	LBC 3482/00	
LB1-UM06E-1	LBC 3483/00	
LBC 3018/01	LBC 3484/00	
LB1-UM20E-D/L	LH1-UC30E	
LB1-UM50E-D/L		
LB3-PC250		
LB3-PC350		

The board must be connected after the ceramic terminal block with the thermal fuse. In case of a fire, the thermal fuse will blow and disconnect the board from the loudspeaker line. The trip point of the thermal fuse that is connected to the ceramic block is lower than the melting point of the solder on the board to prevent short-circuits in the supervision board and the loudspeaker line.

When the loudspeaker does not contain a ceramic terminal block with a thermal fuse, use an LBC 1256/00 EVAC Connection Adapter

## Technical specifications

### Mechanical

Dimensions (H x W x D)	78 x 60 x 22 mm (3.0 x 2.3 x 0.8 in)
Weight	70 g (2.4 ounces)
Mounting	Internally in the loudspeaker An optional mounting bracket, LBB 4446/00 is available

### Environmental

Operating temperature	-5 °C to +55 °C (+23 °F to +131 °F)
Storage temperature	-20 °C to +70 °C (-4 °F to +158 °F)
Humidity	15% to 90%
Air pressure	600 to 1100 hPa

## Ordering information

### LBB 4441/00 Loudspeaker Supervision Board

Loudspeaker supervision slave PCB for mounting on a loudspeaker, operates with LBB4440/00 for monitoring the integrity of the loudspeaker.  
Order number **LBB4441/00**

### Accessories

#### LBB 4441/00-CN Loudspeaker Supervision Board

Loudspeaker supervision slave PCB for mounting on a loudspeaker, operates with LBB4440/00 for monitoring the integrity of the loudspeaker, Chinese version.  
Order number **LBB4441/00-CN**

#### LBB 4440/00 Supervision Control Board

Line and loudspeaker supervision master PCB for mounting in a Praesideo network connected power amplifier, one board is needed per channel.  
Order number **LBB4440/00**

#### LBB 4440/00-CN Supervision Control Board

Line and loudspeaker supervision master PCB for mounting in a Praesideo network connected power amplifier, one board is needed per channel, Chinese version.  
Order number **LBB4440/00-CN**

#### LBB 4446/00 Set of Supervision Board Brackets (10 pcs)

Aluminum brackets for mounting supervision slave boards in a loudspeaker cabinet or cable box (set of 10 pieces).  
Order number **LBB4446/00**

#### PRS-16MCI Multichannel Interface

Interface to Praesideo network, provides 16 audio outputs with control and supervision to non-network connected basic amplifiers, powered from the Praesideo network or the connected amplifiers, rack unit 2 RU.  
Order number **PRS-16MCI**

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