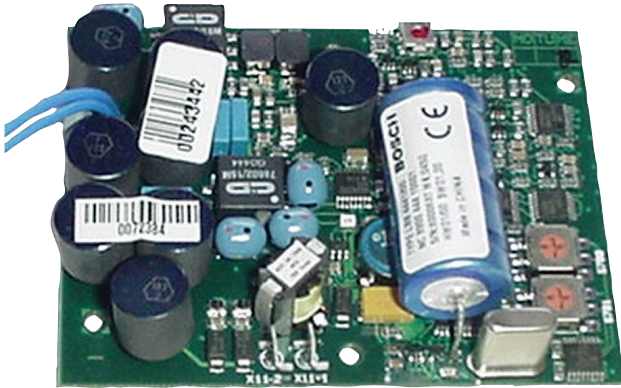




# LBB 4441/00 Loudspeaker Supervision Board



- ▶ 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

Region	Certification
Europe	CE Declaration of Conformity Traction
	TUEV-SUED TUV Certificate IEC60849
	GL GL-SOLAS

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

## 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 3432/01
LC1-UM06E	LA1-UM20E	LS1-OC100E
LC1-UM12E	LA1-UM40E	
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	LBC 3483/00	
LBC 3018/00	LBC 3484/00	

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** **LBB4441/00**  
monitors the integrity of a loudspeaker

### Accessories

**LBB 4441/00-CN Loudspeaker Supervision Board** **LBB4441/00-CN**  
China version, monitors the integrity of a loudspeaker

**LBB 4440/00 Supervision Control Board** **LBB4440/00**  
for use in the power amplifier on each amplifier channel

**LBB 4440/00-CN Supervision Control Board** **LBB4440/00-CN**  
China version, for use in the power amplifier on each amplifier channel

**LBB 4446/00 Set of Supervision Board Brackets (10 pcs)** **LBB 4446/00**  
intended for mounting supervision boards.

## Ordering Information

**PRS-16MCI Multichannel Interface**  
a network interface to the Praesideo basic amplifiers.

**PRS-16MCI**

**Americas:**  
Bosch Communications Systems  
12000 Portland Avenue South  
Burnsville, Minnesota 55337, USA  
Phone: +1-800-392-3497  
Fax: +1-800-955-6831  
audiosupport@us.bosch.com  
www.boschsecurity.com

**Europe, Middle East, Africa:**  
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: +31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

**Asia-Pacific:**  
Robert Bosch (SEA) Pte Ltd  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2600  
Fax: +65 6571 2698  
apr.securitysystems@bosch.com  
www.boschsecurity.com

**Represented by**