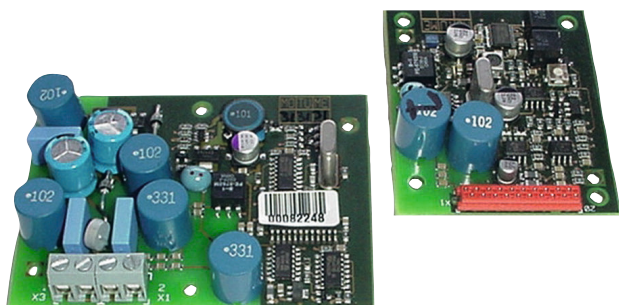




# LBB 4442/00 Line Supervision Set



- ▶ Loudspeaker line monitoring without additional cabling
- ▶ Supervision-master mounting in the power amplifier
- ▶ Supervision-slave mounting at the end of the loudspeaker line
- ▶ Open-circuit fault detection
- ▶ Compatible with 100 V and 70 V loudspeaker lines
- ▶ Supervision-slave powered from the power amplifier

The Praesideo system uses a unique loudspeaker line monitoring principle, which requires no additional cable. The loudspeaker line itself is used to communicate with the supervision-slave installed at the end of the loudspeaker line.

The LBB 4442/00 contains the master and slave device for supervision of a single loudspeaker line. For supervision of multiple loudspeaker line branches and loudspeakers, the use of the LBB 4440/00 Supervision Control Board in conjunction with the LBB 4441/00 and LBB 4443/00 Supervision Boards is recommended.

## Functions

Each amplifier channel in an LBB 442x/x0 or PRS-xPxxx Power Amplifier unit has an internal mechanical and electrical provision for an LBB 4442/00 master board. The slave board fits into the Bosch range of loudspeakers and can be mounted in the last speaker in the line, or in a separate housing at the end of the line. The short-to-ground and short-circuit detection for the lines are incorporated in the power amplifier. Line faults are detected and reported within 100 s. The pilot tone generator for speaker monitoring is generated in the amplifier and powers the slave unit. Line monitoring can be switched on and off from the configuration software.

## Interconnections

- 20-pin flat cable connector (master)
- Two screw terminals (slave)

## Certifications and Approvals

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

## Technical Specifications

### Mechanical

#### Slave

Dimensions (H x W x D) 16 x 80 x 60 mm (0.6 x 3.1 x 2.3 inch)

Weight 50 g (1.7 ounces)

Mounting 2 screws

#### Master

Dimensions (H x W x D) 17 x 60 x 50 mm (0.7 x 2.3 x 2 inch)

Weight 30 g (1.1 ounces)

Mounting Internally in all Praesideo Power Amplifiers

### Environmental

Operating temperature -5 °C to +55 °C (+23 to 131 °F)

Storage temperature -20 °C to +70 °C (-4 to 158 °F)

Humidity 15% to 90%

Air pressure 600 to 1100 hPa

## Ordering Information

**LBB 4442/00 Line Supervision Set** **LBB4442/00**  
contains the master and slave device for supervision of a single loudspeaker line

### Accessories

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

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