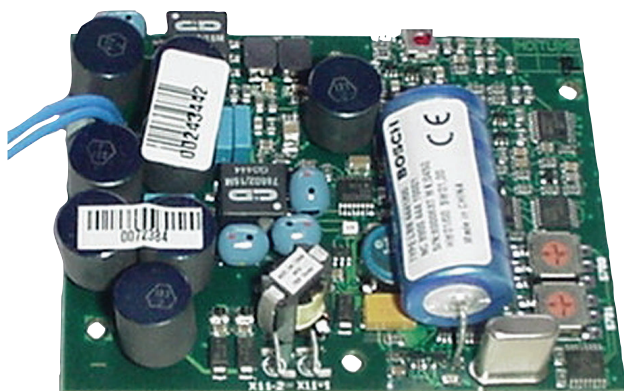



BOSCH

Invented for life

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
		TUV
		Traction
	GL	GL

Immunity	EN 55103-2
Emission	EN 55103-1 / FCC-47part 15B

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	Horn loudspeakers	
LBC 3510/40	LBC 3403/16	
LBC 3520/40	LBC 3404/16	
LBC 3530/40	LBC 3405/16	
Cabinet loudspeakers	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 4440/00 Supervision Control Board	LBB4440/00
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 LBB 4442/00 Supervision Slave Boards.	

PRS-16MCI Multichannel Interface	PRS-16MCI
an interface to the Praesideo basic amplifiers that do not provide network connectivity	

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