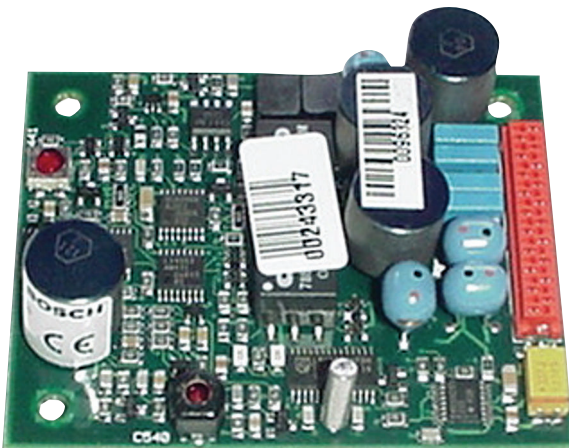


LBB4440/04 Supervision control brd, fast

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Invented for life



- ▶ Multiple speaker and line monitoring without additional cabling
- ▶ Mounted inside the power amplifier
- ▶ Controls up to 80 speaker and line supervision boards
- ▶ Direct replacement of LBB4440/00 with faster fault reporting
- ▶ Compatible with 100 V and 70 V loudspeaker lines

The board controls the communication between the Praesideo system and the loudspeaker or loudspeaker line supervision boards.

The LBB4440/04 is functionally equivalent to the LBB4440/00. It is intended for situations where multi-wire loudspeaker cabling or shielded cabling must be used, prohibiting the use of the regular LBB4440/00 supervision control board. The LBB4440/04 offers faster fault reporting than the LBB4440/00 at the expense of a slightly increased risk of false faults.

Functions

Each amplifier channel in an LBB442x/10 or PRS-xPxxx Power amplifier unit has an internal mechanical and electrical provision for an LBB4440/0x control board. Communication between the supervision boards takes place inaudibly over the loudspeaker line, requiring no additional wiring. The audio signals on the lines do not affect communication.

Monitoring can be switched on and off from the configuration software. The monitoring of the presence of supervisor boards is continuous.

Loudspeaker faults are detected and reported within 300 s, and line faults are detected and reported within 100 s.

Interconnections

20-pin connector and flat cable.

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

Installation/configuration notes

The following power amplifiers have a provision for installing a supervision control board:

- LBB4421/10
- LBB4422/10

- LBB4424/10
- PRS-1P500
- PRS-2P250
- PRS-4P125

Required loudspeaker line characteristics:

Preferred cable	Single twisted pair, 0.75 mm ² to 1.5 mm ²
Maximum length	1 km (including branches, max. 300 m adjacent to other supervised loudspeaker cables)
Maximum loop resistance	38 ohm
Maximum inductance	750 µH
Minimum total loudspeaker impedance	50 ohm @ 70 kHz (independent of amplifier power)
Maximum capacity	300 nF
Maximum number of supervision boards per amplifier channel	80 @ 500 W 40 @ 250 W 20 @ 125 W
Loudspeaker voltage	70 V, 100 V



Notice

The use of multi-wire cables is not recommended in combination with line supervision, because crosstalk between audio channels may influence the line supervision.



Notice

If the maximum load capacity for the power amplifier output is less than 300 nF, the maximum load capacity of the power amplifier is leading.

Parts included

Quantity	Component
1	LBB4440/04 Supervision control brd, fast

Technical specifications

Mechanical

Dimensions (H x W x D)	60 mm x 50 mm x 17 mm without bracket (2.4 in. x 2.0 in. x 0.7 in.)
Weight	30 g (1 ounce)
Mounting	Internally in the power amplifier Plastic brackets for horizontal and vertical installation included

Environmental

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

Ordering information

LBB4440/04 Supervision control brd, fast

Line and loudspeaker supervision master PCB for mounting in a Praesideo network connected power amplifier, one board is needed per channel.
Order number **LBB4440/04**

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