



BOSCH

Invented for life



Plena loop amplifier - PLN-1LA10

The Plena Loop Amplifier is a cost-effective amplifier designed to drive a wire loop installed in the floor or ceiling of a venue up to 600 m² per amplifier. This solution enables hearing-aid users in the area enclosed by the wire loop to hear all announcements, soundtrack or music. Hearing-aid users can set their devices to the T-mode setting to receive the signal coming from the loop to receive excellent audio-quality announcements, without the background noise or reverberation that normally impairs intelligibility for people with hearing difficulties.

- High power current driven amplifier
- Two mic/line inputs, one priority input (100V)
- Selectable frequency range and tone controls
- Limiter and automatic gain control (AGC)
- Integrates in an IEC 60849 compliant system



The loop amplifier can be connected to a mixing amplifier's line level output, or it can accept up to two microphone/line signals directly. A 100 V priority input is available for uplink to a voice alarm system. This input can be monitored for the presence of a pilot tone. The built-in supervision monitors all key functions of the loop amplifier, and the fault state is available on a fail-safe relay. This means it is possible to use the Plena Loop Amplifier in an IEC 60849 compliant system and include the induction loop in the supervised transmission paths.

For added ease of use the Plena Loop amplifier is fitted with a limiter to limit the output field strength to the prescribed 100 mA/m. This circuitry can also be set to function as an Automatic Gain Control (AGC), so those soft signals are boosted for intelligibility while loud signals are attenuated so that all information is presented at a comfortable listening level.

To adjust the sound to the program material and the environment, tone controls and a metal loss compensation circuit is available. After installation the controls can be locked to prevent unwanted access.

Even though one Loop Amplifier can cover up to 600 m², the Plena Loop Amplifier is stackable (master/slave configuration), to cover very large areas. Also, low spill schemes are supported. Its unique quadrate configuration provides uniform field strengths over multiple loops.

Parts Included:

- Quantity Component
- 1 PLN-1LA10 Loop amplifier
- 1 Mounting brackets
- 1 Power cord
- 1 Plena CD

Certifications and Approvals

- EMC emission acc. to EN 55103-1
- EMC immunity acc. to EN 55103-2
- Safety acc. to EN 60065
- Induction Loop Systems Acc. to EN 60118-4
- Acc. to IEC118-4



[Plena loop amplifier \(PLN-1LA10\) - datasheet](#)

[Plena loop amplifier \(PLN-1LA10\) - installation and operating manual](#)

[Plena loop amplifier \(PLN-1LA10\) - application sheet -hearing aid users](#)