




Content

| | |
|----------------------------|---|
| Safety..... | 3 |
| Introduction..... | 3 |
| Product overview..... | 4 |
| Installation setup..... | 4 |
| Input jumper settings..... | 6 |
| MLC..... | 7 |
| Loop specification..... | 7 |
| Warranty..... | 7 |
| Environment..... | 7 |
| Technical Data..... | 8 |

Safety

1. Please read this Installation guide carefully before installing and operating the product.
2. Keep the Installation Guide available on-site.
3. Do not install the unit near any heat sources such as radiators, heat registers, vents or other apparatus that produce heat.
4.  Never expose the unit to dripping or splashing, nor to liquid or moisture of any kind.
5. Do not make any modifications, extensions, or adaptations to the unit.
6. All installation, service and maintenance work must be performed by qualified personnel only. No user serviceable parts.

Introduction

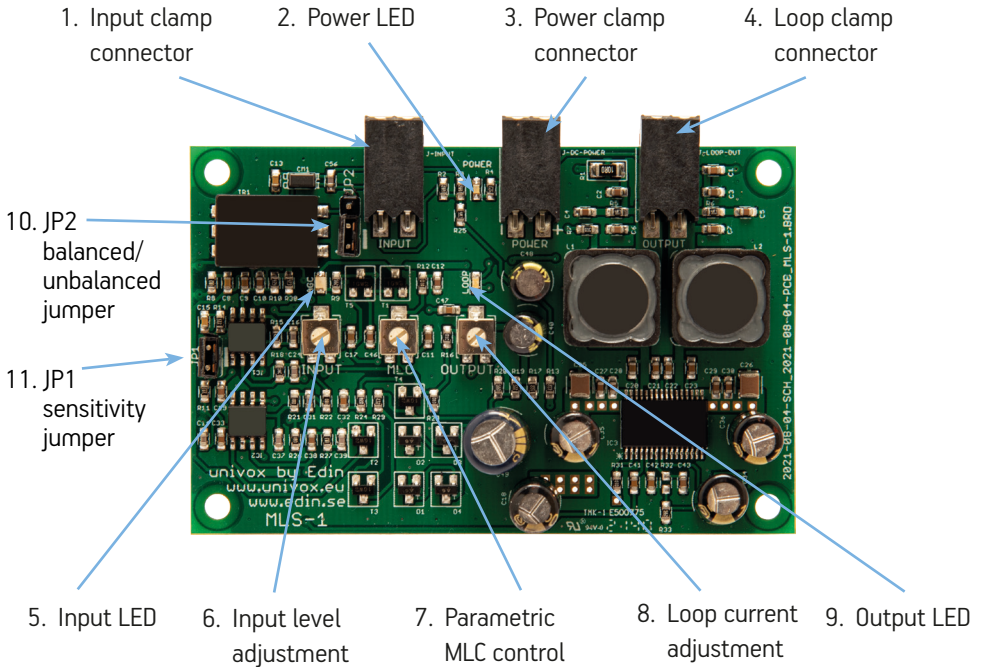
The Unisign is a hearing loop integration kit, featuring a compact powerful induction loop amplifier and a super-slim multi-turn loop, only 3 mm thick. The module is designed for wide range applications, where necessity of a hearing loop system is required.

Unisign allows for quick and easy installation as a perfect addition to small area communication systems, such as intercoms, emergency phones, information-and help points, kiosks or any other system to enhance the intelligibility for hearing impaired individuals.

Designed on efficient class-D technology and with dual action AGC function, MLS-1 allows for simple connection to different input signal levels. Univox® MLS-1 features Metal Loss Compensation (MLC) which enables fine tuning and compensation for metal loss and attenuation effects.

A fully integrated, correctly installed Unisign system complies with all the requirements of the IEC 60118-4 standard.

Product overview



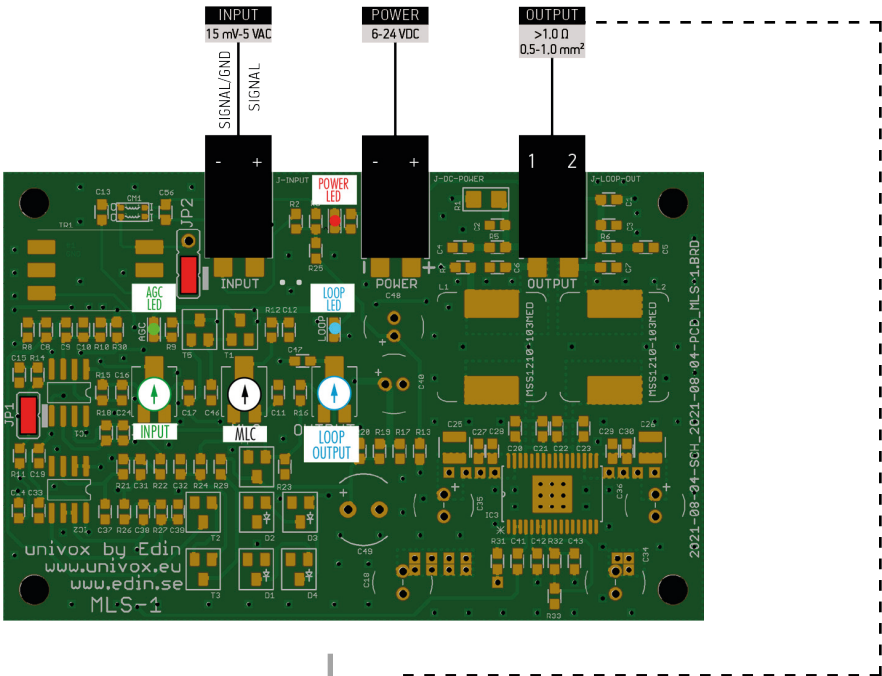
Installation setup

Unisign should be mounted on a flat and stable surface, below or at the side of the intercom panel. (4xM4 screws can be used). Adjust the amplifier accordingly:

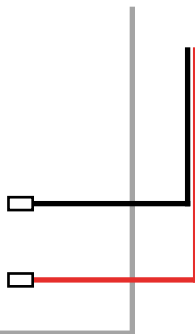
1. Set all level controls (6, 7, 8) to minimum setting (counterclockwise).
2. Connect the Unisign to the Loop clamp connector (4). Any additional feed cable connected between Unisign and MLS amplifier should be twisted.
3. Connect a suitable input signal source to the Input clamp connector (1), see page 6 for balanced/unbalanced and Mic/Line jumper settings.
4. Connect DC power supply to the Power clamp connector (3), (see connection diagram). Observe the power polarity! Verify the power LED indication (2).
5. Adjust the input signal (6) until the input LED (5) flickers occasionally, indicating program peaks.

- Adjust the loop current output level (8) to achieve a field strength compliant with IEC60118-4 requirements. The output LED (9) indicates that the amplifier is transmitting correctly. Use a Field Strength Meter to verify the field strength level within defined distance, at the reference position and direction appropriate for the application.

Note: In smaller systems the listening level will vary as a function of distance (as for a loudspeaker). Check the sound quality (clear sound with no distortion) with the loop receiver, Univox® Listener.



Unisign connection



Input jumper settings

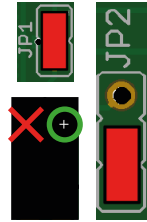
The Input connector (1) can be adjusted for balanced/unbalanced Line and/or Mic sensitivity according to following:

- Input Line sensitivity, balanced**

Input sensitivity jumper JP1 (10) should be ON (sensitivity set to min 85 mVrms to 1.5 Vrms)

Balanced/unbalanced jumper JP2 (11) set to pin 1-2 (bottom and mid pin), default setting.

Connect the signal cable to Input connector (1). Leave GND/ screen open, not connected

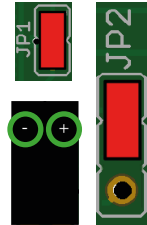


- Input Line sensitivity, unbalanced**

Input sensitivity jumper JP1 (10) should be ON (sensitivity set to min 85 mVrms to 1.5 Vrms)

Balanced/unbalanced jumper JP2 (11) set to pin 2-3 (top and mid pin)

Connect the signal cable to Input connector (1), signal line and GND



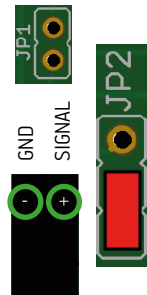
- Input Mic sensitivity, +9 V phantom ON**

Input sensitivity jumper JP1 (10) should be OFF (removed)

Sensitivity level is now set to min 15 mVrms to 1.5 Vrms. Phantom is ON.

Set JP2 (11) to pin 1-2 for balanced or 2-3 for unbalanced (mic dependent)

Connect the signal to the Input connector (1) according to the following:



MLC

The metal loss control function enables system frequency response correction in installations where the signal strength is strongly influenced by the surrounding metal. The frequency response can be fine-tuned by adjusting the MLC potentiometer (7), compensating for the effects of different metal types and configurations.

Loop specification

Recommended loop resistance for the highest system efficiency is approximately 1-1.5Ω.

Warranty

The installer is responsible for installing the product in a way that may not cause risk of fire, electrical malfunctions or danger.

Misuse of the product in any way, including but not limited to:

- Incorrect installation
- Force majeure e.g. lightning strike
- Ingress of liquid
- Mechanical impact

will invalidate the warranty.

Bo Edin AB shall not be held responsible or liable for interference to radio or TV equipment, and/or to any direct, incidental or consequential damages or losses to any person or entity, if the equipment has been installed by unqualified personnel and/or if installation instructions stated in the product Installation Guide have not been strictly followed.

Environment



Please follow existing disposal regulations in your country. If you respect these instructions you help ensure human health and environmental protection.

Technical Data

MLS-1

| | | |
|----------------|--------------------------------------|------------------------------------|
| Power supply | External PSU 6-24V DC | System voltage 12 V |
| | Power consumption | Idle current 36 mA@12 V |
| Input | Galvanically isolated balanced input | |
| | Mic/Line sensitivity | 15 mV-1.5 Vrms, -34 dBu - +5.7 dBu |
| | Max input level | 1.5 Vrms, +5.7 dBu |
| | Phantom power | 12 VDC |
| | Source impedance | 0-2 kΩ |
| | Output | Max voltage |
| | Max current | 5.3 Arms |
| | Distortion | <1% |
| Univox AGC | Dynamic Range | >50-70 dB (+1.5 dB) |
| LED indication | Power | |
| | Input level | |
| | Output current | |
| Weight | 38 g | |

Unisign

| | | |
|-------------|------------------|-------------|
| Dimensions | Height | 300 mm |
| | Width | 210 mm |
| | Depth | 3 mm |
| Weight | 220 g | |
| Environment | IP54 class | |
| | Temp range MLS-1 | -40 to 75°C |



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