

ILD15 Lift Loop Driver

The ILD15 audio induction loop driver is a rugged amplifier primarily for lift applications or other rugged industrial environments. Correctly installed it will provide full area coverage in most lifts to IEC60118-4. The amplifier is constructed of a very robust steel housing, with vibration isolating connections and mountings to protect electronic connections, and is further protected by a 5 year warranty from Ampetronic. The amplifier has 2 independently controlled transformer isolated inputs. The audio system is designed for excellent intelligibility and includes metal loss frequency compensation to correct for the metal structure of the lift car. Battery backup is available as an integral option if required.

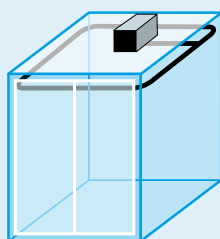
The magnetic field strength and distribution in a lift car will be highly dependent on installation method and the construction of the lift car. It is strongly recommended that you contact Ampetronic for free technical support and advice on the best method and design for your specific application.



Features

- **Robust industrial housing and vibration protection**
- **5 year warranty**
- **2 transformer isolated inputs** (low impedance speaker line and 100V line options)
- **Metal loss correction**
- **Battery backup option**
- **Free support and installation advice**
- **Full area coverage to IEC60118-4**

Recommended installation – full area coverage / perimeter loop



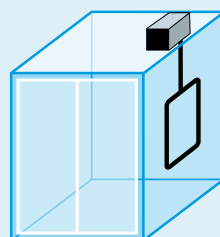
The ILD15 is designed to provide full area coverage of the lift car by driving a single turn loop around the perimeter of the lift car positioned at ceiling height. The loop must be placed inside the lift car behind non-metallic trim. The loop must not be behind metal panels or inside a metal enclosure in the roof space as this normally causes unacceptable reduction and distortion of the magnetic field.

There are two standard options for the loop itself:

LOOP BARS - The most robust solution is to attach custom built stainless steel loop bars to the ceiling inside the lift. Loop bars can be custom designed and supplied by Ampetronic to fit your specific requirements. Loop bars provide a robust and aesthetically pleasing solution with excellent performance.

LOOP CABLE - In some lifts it is possible to fit a single coil of 2.5mm² loop cable inside the lift behind non-metallic trim, or in rare cases inside the roof space if non-metallic.

Localised area coverage installation



Where an area coverage loop can not be installed, the ILD15 can be used to drive a smaller loop placed on or inside non-metallic wall panels or trim (for this type of application it is also possible to use other lower cost Ampetronic amplifiers if the high level of robustness and battery backup of the ILD15 is not required).

This style of installation restricts the useful magnetic field to an area no more than 1m from the loop coil, making it ineffective for large lifts and for use with a Public Address system or for safety communications such as a Voice Evacuation system.

Installation behind a metal panel or metal trim will rarely produce an effective magnetic field with any amplification method. Please contact Ampetronic for detailed guidance on the best installation method for your lift car or industrial environment.

ILD15 Product Information

Power Options

The ILD15 can be supplied with or without an integral battery back up system.

230V Option

Nominal supply voltage 230V 45-65Hz

Fuse T100mA L

Supply current (max) 83mA

Supply current (quiescent) 70mA

115V Option

Nominal supply voltage 115V 45-65Hz

Fuse T 200mA L

Supply current (max) 166mA

Supply current (quiescent) 140mA

Battery backup

The ILD15 can be ordered with battery backup (ILD15BB) or without (ILD15NB).

Battery capacity 2Ah 12V

Battery life Sufficient for 12 hours standby plus 30 minutes full power operation

Power indicator LED inside unit indicates power status

Charging Custom charging circuit to optimise battery life

Accessories

Loop Bars 2 or 4 bar loop assemblies customised for the lift and finished in the same material as lift Interior for concealment

Standards compliance

The ILD15NB and ILD15BB are CE marked to all relevant safety and EMC standards.

The ILD15NB and ILD15BB will meet the requirements of IEC60118-4 and the relevant recommendations of BS7594 if specified and installed according to Ampetronic's instructions.



ILD15 with battery backup

INPUTS

Two input options are available, either with two low impedance (Z) speaker line inputs, or one 100V line and one low-Z input.

Low Z speaker input Input impedance: 5kΩ differential
Sensitivity: 20dBu (78mVrms) for full output
Overload: >19dBu (6.8Vrms)
adjustment made on control panel under lid

100V line PA input Input impedance: 136kΩ
Sensitivity +23dBu (11Vrms) for full output
Overload: >+48dBu (190Vrms)
adjustment made on control panel
Isolation : 1500V

OUTPUTS

Drive voltage 1.5V peak at max drive current

Drive current

- >9A peak with 1kHz sine
- Adjusted on control panel under lid
- LED indicator on control panel

Loop connector Vibration proof terminal blocks

AUDIO SYSTEM

Freq. response 80Hz to 5kHz ± 1.5dB relative to 1kHz at low level, measured as loop current with no metal loss correction.

Automatic Gain Control AGC optimised for speech
Dynamic range 40dB
LED indicator on front panel under lid

Metal Loss Correction 0dB to 3dB / octave boost
Adjusted on control panel under lid

PHYSICAL

Cooling Convection cooled

Dimensions width 190mm, length 255mm, height 90mm

Weight ILD15NB: 3Kg
ILD15BB: 3.8Kg

Environment IP20: 0 to 90% relative humidity, -30 to 75°C



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