Univox® CLS-5T

UN ECE R10 certified

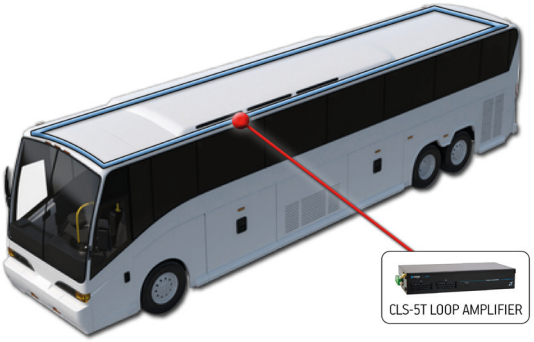
Hearing loop system for vehicles

Applications

- Vehichles; buses, taxis, trams
- Elevators

Features

- Vehicle standard UN ECE R10 certified
- Microphone/line inputs, including digital (optical/coax)
- 110-240VAC or 12-24VDC
- Dual Action AGC (automatic gain control)
- 24V output for external device connection
- MLC (Metal Loss Correction)
- Alert input



Warning! When installing Univox CLS-5T in an application with a DC-power supply, if signal source is connected to IN 2, unbalanced RCA input, an FGA- 40HQ ground isolator (part.no: 286022) must be installed between the loop amplifier input and the signal source. If the signal source and the amplifier's input are not galvanically isolated, a serious error may occur.

Compact hearing loop system for vehicles

Univox CLS-5T is a compact loop amplifier designed for wireless listening through T-coil equipped hearing devices.

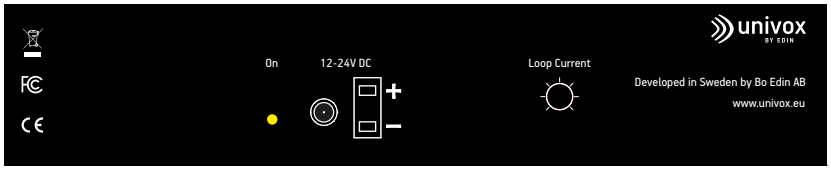
CLS-5T is a high-power loop amplifier with several input alternatives to fit every need. Perfect on board a bus or elevator, operating on 12-24VDC. CLS-5T is compliant with automotive regulation ECE R10 and correctly installed, the system is designed to comply with IEC 60118-4. Audio quality is significantly enhanced due to the embedded electronic transformer, eliminating modulation distortion at high power output. The audio chain also incorporates features such as the Metal Loss Correction to fine tune for the effects of metal loss, as well as the unique Dual Action AGC (automatic gain control) which lets the sound return immediately after noise suppression.

About ECE regulation R10

ECE R10 is a regulation published by the United Nations Economic Commission for Europe (UNECE) for the automotive industry. ECE R10 is defining Electromagnetic Compatibility requrements of the vehicles and electronic sub-assemblies (ESAs) used in the automotive industry.

ECE Regulation R10 covers the requirements regarding the immunity to radiated and conducted distrubances related to direct control of the vehicle, the driver, passenger, and other road users' protection. The regulation addresses disturbances which would cause confusion to the driver or other road users, related to vehicle data bus functionality. ECE Regulation R10 also addresses requirements regarding the control of unwanted radiated and conducted emissions to protect the intended use of electrical or electronic equipment from nearby or adjacent vehicles and the control of disturbances from accessories that may be retrofitted to the vechicle.

Rear panel interface



Hearing excellence since 1965

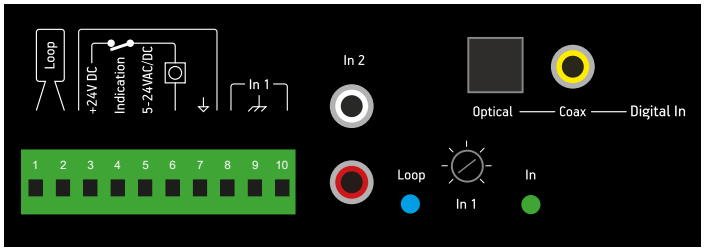
univox BY EDIN

Univox® CLS-5T

Technical data

Power supply	110-240 VAC, primary switching power supply 12-24 VDC as primary power or backup. 12 V will reduce the output	
Loop output	Max current	10 Arms
	Max voltage	24 Vpp
	Frequency range	55Hz to 9870Hz @ 1Ω + 100uH
	Distortion	1% @ 1Ω DC and 80µH
	Connection	Screw terminal
Inputs	IN1 (Phoenix Conector/Balanced Input/PIN8/10): 8mV–1100mV 1.1Vrms (RMS) /5kΩ	
	IN2 (RCA) Unbalanced Input: 15mV-3500mV 3.5Vrms (RMS) /5kΩ	
Dual Action AGC	Working range	>70 dB
	Attack time	2-500 ms
	Decay time	0,5-20 dB/s
Controls	Metal loss control	Treble control, 0 - +18 dB, internal control
	Loop adjustment	Potentiometer control
Indications	Power connected	Yellow LED
	Loop current	Blue LED
	Input signal	Green LED
Other	Dimensions	205x130x40mm (WxDxH)
	Weight	NET: 1.06kg GROSS: 1.22kg
	Colour	Black
	Part no	212060

Side panel interface



The User Guide, Installation Guide and Certificate of Conformity are available at our website for download.
The brochure is based on the information available at the time of printing and are subject to change without notice.

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