



## Features

- Easy installation - Low profile
- Phoenix connectors
- Mic / Line input
- Voice enhanced filter
- UN ECE R10 Certificate
- Multiple certificate for train installation

## Compact loop amplifier for transportation environments

Univox CLS-3T is a compact loop system engineered specifically for transportation environments including taxi, buses, coaches, as well as other small vehicles, the amplifier may also be used to power small point-to-point systems. With its small footprint may of course be used for OEM installations in difficult environment and limited space. Easy to use and durable, it's perfect for any compact setup.

CLS-3T is an ideal option for smaller hearing loop installations in trains since its construction provides high immunity to mechanical vibration and shock, complying with the requirements of EN 50155:2021 and EN 61373:2010 standards along with meeting all the requirements for EN 45545-2:2020.

Additionally, the CLS-3T features Metal Loss Compensation (MLC) which enables fine tuning and compensation for metal loss and attenuation effects. CLS-3T also includes a speech enhancement filter to enhance the voice frequency when connecting a microphone into the device, making it ideal choice for installations where clear communication is essential.

CLS-3T is certified according to the UN ECE R10 automotive standard, and will, correctly installed and commissioned comply all requirements of IEC 60118-4.

Applications include:

- Taxi & other automobile systems
- Bus
- Subsystems in trains
- Elevators communication & control systems
- Intercom systems

# Univox® CLS-3T

## Technical specifications

<b>POWER SUPPLY</b>	12-24 VDC	
	Power consumption	Low inrush current. Quiescent < 50 mA, Speech 1-2.5 Arms
	External fuse	4 A, Slow
<b>INPUT</b>	Isolated differential input	
	Range	10 mV-7 Vrms@24 VDC
<b>OUTPUT</b>	Current	>5 Arms@125 ms RMS 1 kHz
	Functional range	1-10 Ohm impedance
	Max voltage	20 Vpp@24 VDC, 10 Vpp@12 VDC
<b>FREQUENCY RANGE</b>		100-6000 Hz
<b>LOAD</b>		1-10 Ohm
<b>DUAL ACTION AGC</b>	Dynamic range	>50-70 dB (+1.5 dB)
<b>LED INDICATORS</b>	Power	
	Output	
<b>DISTORTION</b>		<1%
<b>IP CLASS</b>		IP54
<b>ENVIRONMENT</b>	Temp range	-75 to 105°C
<b>SIZE</b>	L x W x H	150 x 90 x 25 mm
<b>WEIGHT (NET)</b>		320 g
<b>PART NO</b>		212003



	Phoenix Terminal	Function	Data	Note
<b>1. INPUT</b>	Audio in +/-	Balanced	8 mV-7 Vrms	Internal adjustable
Input LED		Signal input		Internal
				Connected to CHASSIS
<b>2. OUTPUT</b>	Loop	Loop output	3-5 Arms	Floating
Output LED		Loop output		Internal
<b>3. POWER</b>	+/-	Power supply	12-24 V / < 3 A	Fuse 4 A (slow)
Power LED				Internal
				Connected to CHASSIS



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For complete manual and certificate, please refer to [univox.eu](http://univox.eu).

