

Large Area Vehicle Hearing Loop Driver

The Large Area Vehicle Hearing Loop Driver is a durable unit designed to enhance communication throughout transport vehicles such as buses and coaches.

This dual-output driver powers phased array and perimeter hearing loops with an Class-D amplifier output stage and an audio subsystem built around an advanced DSP core.

Automatic gain control and high-frequency compensation provide control in environments with metal loss.

Features

- 2 x Independent loop outputs (selectable 0° and 90° phase shift)
- Voltage: >12V_{RMS} | Current: >4A_{RMS}
- Line level Input (balanced and transformer isolated)
- Line high voltage level input (balanced and transformer isolated)
- Universal line or microphone input (microphone bias: optimised for Contacta microphones)
- DSP controlled automatic gain control and highfrequency compensation for metal loss
- Integrated protection circuits with temperature, voltage, short-circuit and DC detection
- Compact chassis with mounting brackets
- Flexible signal routing:
 - Line/mic input can feed one loop output whilst other inputs feed the second output, or,
 - All inputs can feed both outputs outputs can then be selected as 0° and 90° phase shift
- Connector: WAGO 769 series
- Digital audio input [optional extra]



VLD1

Applications

For use in vehicles requiring coverage across large areas, such as:

- Buses
- Coaches

Standards

- 2012/19-EU The Waste Electrical & Electronic Equipment Directive
- 2015/863/EU The Restriction of Hazardous Substances Directive
- EMC: EN/ECE R10 (EMC for vehicle components)

Talk to us now: +44 (0) 1732 223900 (UK & ROW) +1 616 392 3400 (US & Canada) www.contacta.co.uk



Physical Data





Technical Data

1 x Line level Input (balanced and	Voltage	-45dBV – 0dBV (optimized for -10dBV – 0dBV)
(balanced and		
balanced and transformer isolated)	Frequency Range	100Hz-6000Hz
,	Topology	Balanced and transformer isolated
	Voltage	+5dBV – +45dBV (0.562Vrms -100Vrms)
	Frequency Range	100Hz-6000Hz
transformer isotated)	Topology	Balanced and transformer isolated
1 x Universal Line or	Voltage	-45dBV – 0dBV (optimized for -10dBV – 0dBV)
Microphone Input	Frequency Range	100Hz-9kHz
optimized for Contacta	Topology	Electronically Balanced
microphones)	Microphone Bias	Optimised for Contacta microphones
[Optional extra feature,	Connection	SPDIF
not fitted on standard	Encoding	PCM 16 bit
1 x Digital Audio Input	Sample Rate	44.1KHz, 48KHz, 96KHz
2 1 1 1 1	Voltage	>12Vrms
Outputs (selectable 0°	Current	>4Arms
and 90° phase shift)	Selectable 0° and 90° phase shift	
	The line outputs should have the following characteristics:	
	Format	Audio mix of all drivers
1 x Line Level Output	Phase shift	0°
	Gain	0dB
	Voltage	Nominal 24V (9V-24V)
1 x Power Connection	Current	Maximum 6.6Arms @ 9VDC
	Connector	WAGO 769 series detachable 2-way block
1x USB Connection [for	The input should have the following characteristics:	
factory configuration and	Connector	USB Type A
	Use	Firmware/Config/Update
	The input should have the following characteristics	
2 x Enable/Disable	Trigger	Configurable (High-Low or Low-High)
(Mute) Connections	Threshold	Production Configurable (Resistor change)
		, , , , , , , , , , , , , , , , , , ,
	Level Input (balanced and transformer Isolated) 1 x Universal Line or Microphone Input (microphone Input (microphone bias: optimized for Contacta microphones) [Optional extra feature, not fitted on standard units] 1 x Digital Audio Input 2 x Independent Loop Outputs (selectable 0° and 90° phase shift) 1 x Line Level Output 1 x Power Connection 1 x USB Connection [for factory configuration and system setup, adjustments and updates]	1x Line High Voltage Level Input (balanced and transformer Isolated) 1x Universal Line or Microphone Input (microphone bias: optimized for Contacta microphones) [Optional extra feature, not fitted on standard units] 1x Digital Audio Input 2 x Independent Loop Outputs (selectable 0° and 90° phase shift) 2 x Independent Loop Outputs (selectable 0° and 90° phase shift) 1x Line Level Output 1x Line Level Output 1x Power Connection 1x VSB Connection [for factory configuration and system setup, adjustments and updates] 2 x Enable/Disable (Mute) Connections Voltage Frequency Range Foods Foods Foods Foods Foods Foods Foods Foods Frequency Range Foods Foo