



DLS HLC4.2 - High level Converter

Instructions for use and connection

High level converter

This converter is designed for use with factory radios in cars without RCA low level output. Most modern car amplifiers are equipped with high level inputs and these work ok with older factory radios but do not work in newer models head units especially if they have digital output chips. HLC4.2 is designed to work with all head units thanks to fully balanced noise rejecting input circuits. The converter can be used for both 2 -and 4 -channel amplifiers and have up to 3v output to minimize noise in amp input section.

Perfect for adding subwoofer to a OEM system with the CP-EBC external remote.

Note: If using in 2 channel mode channels 1 & 2 must be connected for the signal sensing circuit to function.

Red = +12 V DC supply
Blue = Remote out to amp.
Black = To ground -

Switch for sensing modes.
Left position = Audio mode
Right position = DC mode

LED indicators

RCA output to amp:

Channel 1, Left

Channel 2, Right

Channel 3, Left

Channel 4, Right

3,5mm jack for external bass remote control on ch 3+4 (mono output)

Input ch. 1, Left +	:white
Left -	:white / black
Input ch. 2, Right +	:grey
Right -	:grey/black
Input ch. 3, Left +	:green
Left -	:green / black
Input ch. 4, Right +	:purple
Right -	:purple / black

Sensing mode switch

Remote out for Amplifier start

The switch can be in position Audio (left position) or DC mode (right position). In Audio mode the remote out starts when audio signal (sound) appears in speaker wires to channel 1 input.

In DC-mode the remote out starts when the factory radio is turned on and a DC offset voltage (from Gnd) appears in the speaker wires to channel 1 input. Use DC mode as standard position.

Technical facts HLC4.2

DLS article number	CA-HLC4.2
Number of channels	4
Power supply	12 V DC (min 10,8, max 15,6V)
Current draw, no signal	4 mA
Current draw, operational	Typical 25 mA
Output voltage	3 V RMS
Distorsion	0,002% THD @ 3V output, 10 kohm load
Clip point	3,7 V RMS @ 14,4 V power supply
Output impedance	200 ohms nominal
Input impedance	Ch. 1: 44 ohms, Ch. 2-4: 100 ohms, All channels are fully balanced
Sensing modes	DC level or Audio, both operate on Ch. 1 only.
Remote output	12 Volts, max 100 mA max, protected against short term short circuit
Indicators	Green= Remote on, Blue = Audio sensing active
Reverse polarity protected	
Summing output ch 3+4 for subwoofer amp when used with optional CP-EBC.	

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