Hydro Electronic Devices, Inc.

Technical Data Sheet

Representative Product Photo

CANLink® CL-442-104 Module
I/O Module with LED I/O Indicators

11 Inputs and 4 Outputs including:

- (5) switch to battery inputs
- (4) 0-5.5VDC 10-bit analog inputs
- (2) frequency inputs
- (3) harness code* inputs
- (4) 3A PWM outputs with estimated current feedback
- (1) 5V Regulated Sensor Supply (250mA)
- (1) J1939 CAN port

The CL-442 is a solid-state microprocessor based module and member of the HED® CANLink® multiplexed control family. Delivered in a Deutsch enclosure, this unit provides a high density I/O count in a compact and economical package.

Designed for use as a stand alone unit or as part of a distributed system, the CL-442 is also available in a clear enclosure with LED indicators for each input for simple troubleshooting in the field.

The HED® CL-442 can be programmed using HED®'s do-it-yourself CANLink® Composer™ programming tool or directly by HED® engineering, and is designed for use with the CANLink® Conductor™ software tool for diagnostics and field troubleshooting.

Specifications	
Enclosure:	Deutsch standard EEC-325x4 PCB enclosure with 24-pin receptacle.
Mating Connectors: Deutsch	DTM06-12SA DTM06-12SB WM-12S (wedge) – Two needed (one per connector) 0462-201-20141 20AWG sockets 0413-204-2005 Sealing Plugs – Unused pins are required to be sealed to maintain module sealing
Operating Voltage Range:	8-32 VDC
Operating Temperature:	-40°C to 70°C
Storage Temperature:	-40°C to 85°C
IP Rating:	IP 67
PC Boards:	The printed circuit boards are designed for high EMI/RFI protection. The boards are conformal coated with a silicone coating for further water/moisture protection. All inputs and outputs are protected against shorts to Battery(+) or Battery(-). 100% of the boards are functionally tested before shipment. * Harness codes are switch to ground inputs used to identify I/O module location and function to the master controller

CANLINK®

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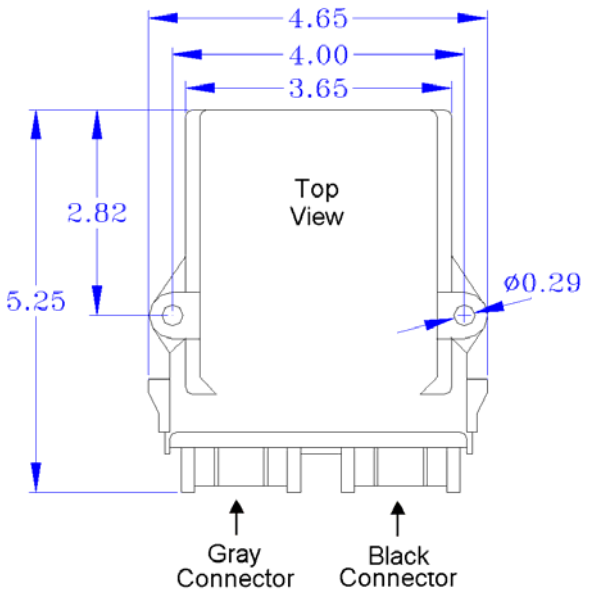
Specifications

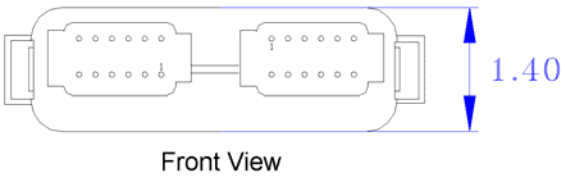
CL-442-104 I/O Module

CL-442-104 I/O Module Pinout

DTM13-12PA (Gray)		DTM13-12PB (Black)	
Pin	**Function**	**Pin**	**Function**
1	Input #1 STB	1	Output #1 DOUT(+)/PWM(+)/ECC(+)(3A)
2	Input #2 STB	2	Output #2 DOUT(+)/PWM(+)/ECC(+)(3A)
3	Input #3 STB	3	Output #3 DOUT(+)/PWM(+)/ECC(+)(3A)
4	Input #4 STB	4	Output #4 DOUT(+)/PWM(+)/ECC(+)(3A)
5	Input #5 FREQ	5	Input #10 AIN(0-5.5V)
6	Input #6 FREQ	6	Input #11 AIN(0-5.5V)
7	Input #7 AIN(0-5.5V)	7	Input #12 STB
8	Input #8 AIN(0-5.5V)	8	5V Sensor Supply (250mA)
9	CAN1-L	9	Sensor Supply Ground
10	CAN1-H	10	HID #1
11	BAT(-) Module	11	HID #2
12	BAT(+) Module and Outputs 1-4 / Input #9 Battery Voltage	12	HID #3

Note: Above pinout is for HED® part number CL-442-104.
Additional part number data sheets available on HED® website.





Front View

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