



# High Country Tek, Inc.

## Electronic Valve Controller **eVC**

Multi-Function SAE J1939 Compatible Module

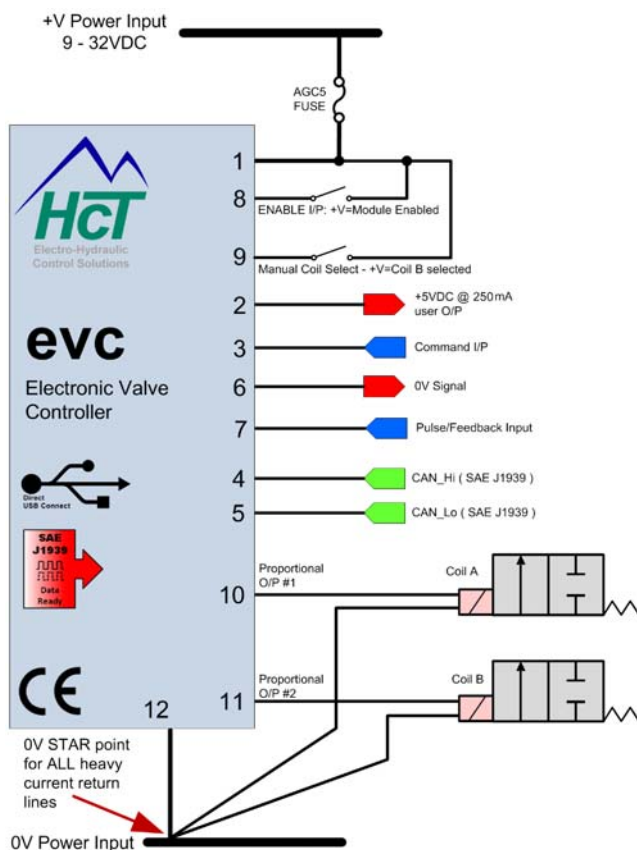
Electronic Control Solutions for the Global Fluid Power Industry

### Application Information:

- Controls 2x proportional pressure / flow / directional valves
- Multi-Option, selectable mode controller in one package
- SAE J1939 expansion 'Node' and/or system compatibility
- SAE J1455 (load dump) compliant power protection
- Windows™ software user interface for configuration
- System "Status" LED with blink code & data logging
- Direct mini USB connection to PC for set-up/diagnostics



### Electrical Connection Diagram:



### Controller Specification:

<b>Housing Type</b>	HCT unique encapsulated block
<b>Power Supply Voltage</b>	9 to 32V <sub>dc</sub> (Absolute Maximum)
<b>Current Consumption</b>	Valve current + 50mA Quiescent (Max)
<b>Command Inputs</b>	<b>SAE J1939</b> 2x switches (ON/Off) 1x analog input (0-5V, 0-10V, 4-20mA) 1x analog input (0-5V, 0-10V, Pulse or Freq - 3 to 30KHz)
<b>Input Impedance</b>	Voltage inputs = 100kΩ 4-20mA input = 100Ω
<b>Outputs</b>	2x 3A proportional PWM (sourcing) (short circuit protection and open circuit alert) 1x 5V <sub>dc</sub> ±10% regulated voltage (max 250mA)
<b>PWM Dither Frequency</b>	Software adjustable - 33 to 500Hz
<b>Module Connector</b>	DTF15-12PB, 12-way Male
<b>Communication</b>	Mini-B USB standard
<b>Housing Material</b>	Black, Polycarbonate
<b>Encapsulation</b>	Flameproof epoxy resin
<b>Mounting</b>	2x No.8 (5mm) screws
<b>Temperature Range</b>	-40 to +85°C (operational)
<b>NEMA/IP Rating</b>	NEMA 6P/IP67



# Single Channel Pump Controller evc

## evc Accessories:



### 023-00259

- PC set-up software
- System diagnostics
- Data logging feature



### Connectors / Cables

- 999-10156 Prototype harness
- 108-00134 Communication cable



### Joysticks

- SAE J1939 / Hall Effect
- Single or dual axis
- Spring return to center or detent

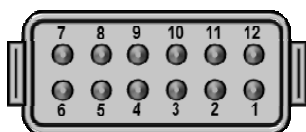


### Foot pedals

- SAE J1939 / Hall Effect
- Uni or bi-directional
- 30° or 45° pedal deflection

## Connector Details:

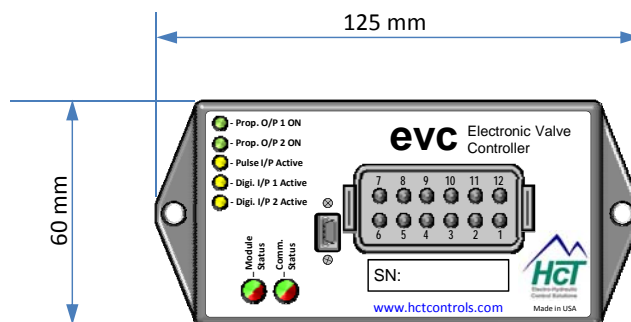
View of 12 way male module connector **DTF15-12PB**



- Pin 1 +Vin, 9 to 32V<sub>dc</sub> power supply input
- Pin 2 +5V<sub>dc</sub> @ 250mA regulated voltage output
- Pin 3 Command input
- Pin 4 CAN\_HI (**SAE J1939**)
- Pin 5 CAN\_LO (**SAE J1939**)
- Pin 6 0V - Signal GND
- Pin 7 Pulse input or analog input 2
- Pin 8 Controller enable input (high = enable)
- Pin 9 Manual selection of coil A or B
- Pin 10 Coil A proportional output + (sourcing)
- Pin 11 Coil B proportional output + (sourcing)
- Pin 12 0V - Power GND

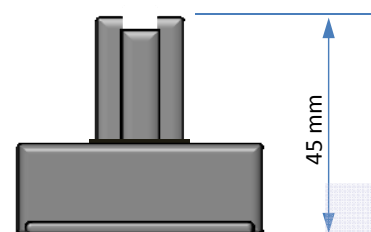
- Mating 12 Way Connector Kit **999-10155**
- Qwik-Pick Solution Kit **999-10261**

## Dimensions:



### Notes:

- Controller weight is approx. 200g
- Mount to flat, cool surface.
- Use BOTH mounting lugs for security



**www.hctcontrols.com**



### High Country Tek, Inc.

208 Gold Flat Court  
Nevada City, CA, 95959  
Tel: (1) 530 265 3236  
Fax: (1) 530 265 3275  
info@hctcontrols.com