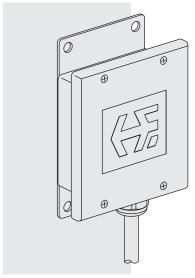
# Proportional Valve Controller—Metal Housing—



**GENERAL SPECIFICATIONS** Metal Housing: Conformal coated;

IP67 rated

Weight: Metal Box without cable:

400 g (14.1 oz.)

Connections: Mounted cable with unterminated wires provided; Length: Approx. 1.5 meters (59")

> **CSA and CE Listings:** CSA C22.2 No. 14-M91

CE: EN 50081-2, EN50082-2

### DESCRIPTION 0-10 VDC Input

A metal box-style control amplifier for controlling HydraForce proportional valves. The metal housing is IP67 rated. Remote mounting is required.

This control module uses closed-loop current control with superimposed dither to supply a proportional valve solenoid with a proportional control signal. The input signal to this controller can be from a 0-10 VDC source.

### **FEATURES**

- · Adjustments accessible under removable cover.
- LED indication of output power level, input level and power on/off.
- One unit covers supply voltages from 9 to 32 VDC.
- · No internal fuses; circuit limits current electronically.
- Short circuit proof and reverse polarity protected.
- Can be disconnected from coil when powered.
- Maximum current adjustment does not affect minimum current setting.
- Filter eliminates electrical noise.
- Independent ramp adjustments.
- Dither frequency and amplitude are adjustable for maximum valve performance.

### **RATINGS**

Supply Voltage: 9-32 VDC

Coil rating must be matched with supply voltage: Rcoil ≤ (Vsupply - 1.5 V) / I-Max.

Control Input Signal: 0-10 VDC Input Resistance: 250K Ohms Output Current: up to 1200 mA

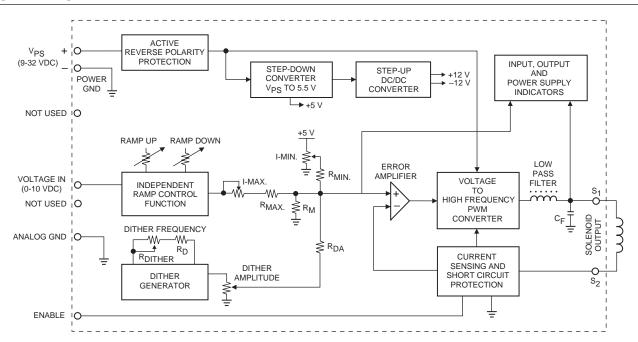
Minimum Current Range: 0-150 mA, adjustable Maximum Current Range: 400-12000 mA, adjustable

Ramp Up and/or Down: 0.01-5.0 seconds, independently adjustable

Dither Frequency: 70-350 Hz, adjustable

Dither Amplitude: 0-10% of maximum current, adjustable Operating Conditions: -40° to 85°C; 0 to 85% relative humidity

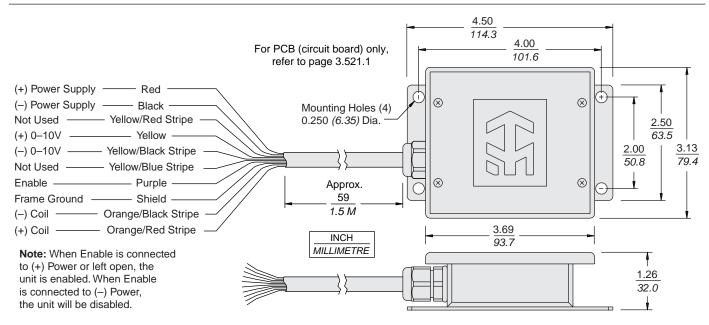
### **SCHEMATIC**





## 0-10 VDC Input

## **DIMENSIONS**

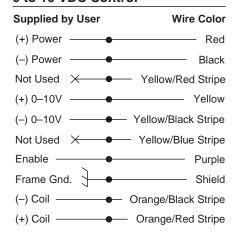


### **CONNECTIONS**

### For Complete Set-Up Instructions, see page 3.439.1

**Basic Setup:** Controller is shipped with ramp trim pots fully counterclockwise to eliminate ramping. Use I-Min. screw to set minimum speed with minimum control input. Use I-Max. screw to set maximum speed with 100% of control input.

### 0 to 10 VDC Control



### **TO ORDER**

Part Number	Output	I-Min. Setting	I-Max. Setting
4000182	1200 mA Max.	0 to 150 mA	400 to 1200 mA

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