



High Country Tek, Inc.

# Electronic Soft Shift Controller - PTD-SS1

Electronic Controller Solutions for Mobile, Industrial & Marine Applications.

## Application Information:

- Electrically adjustable Soft start / Soft Stop controller
- Rate of change not viscosity dependent
- Can be used with all types of electro-hydraulic valves
- Repeatable 'Bumpless' Compression / De-compression
- Perfect for load / Un-load circuits to reduce wear

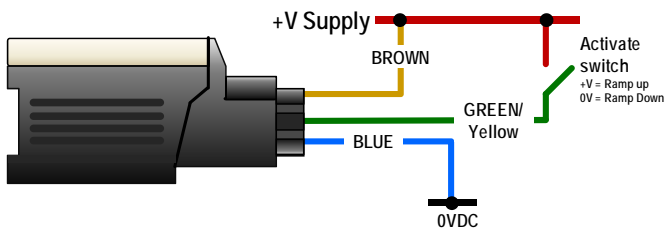
## Product Feature Overview:

- Industry standard DIN 43650 connector footprint
- One unit for 10—30VDC operation
- Range adjustable from ~50mS to ~1 second
- LED diagnostics show full controller operation at all times
- Complete with 1M/3 feet of color coded wire for fast, easy connection
- Mounting hardware and gaskets supplied with each controller
- Meets latest CE latest test standards
- Flame retardant resin used to fully encapsulate unit for high IP/NEMA rating



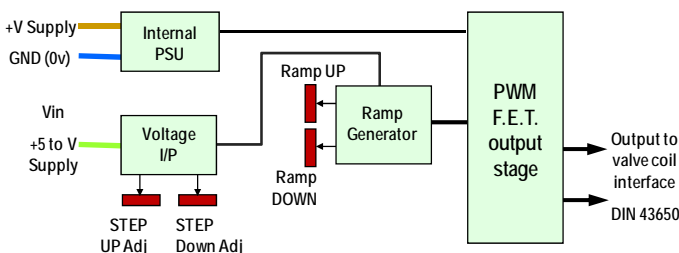
Order **PTD-SS1** for this unit

## Electrical Connections and Controller Specification Overview:



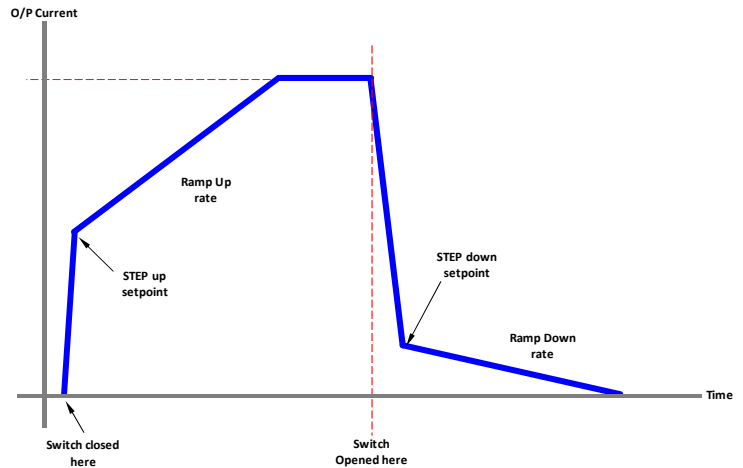
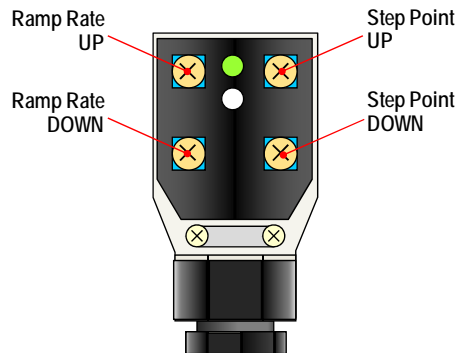
- BROWN** - +V Supply Input  
**BLUE** - GND (0V) Supply Input  
**GREEN/YLW** - Voltage Input

**NOTE:**  
 If an external voltage source is used, user **MUST** ensure external signal source 0V is connected to same GND at this controller for correct operation



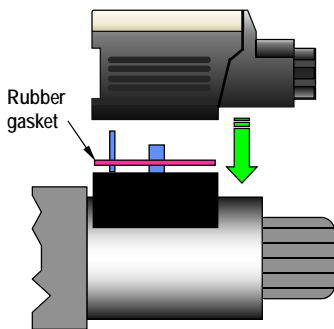
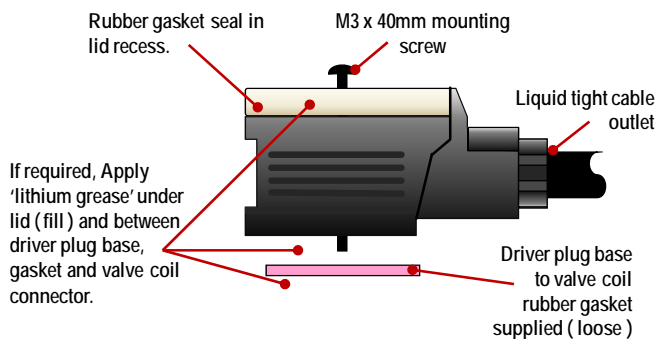
<b>Housing Type:-</b>	HCT unique 'encapsulated' block.
<b>Input Supply Voltage:</b>	+10 to +30VDC ( Abs. Maximum )
<b>Output Current:</b>	3.0 Amps Max ( limited )
<b>Output Power:</b>	36W ( Abs. Maximum )
<b>Coil Resistance:</b>	4.8 to 30 Ohms @ 20°C
<b>Command Input Type:</b>	Voltage only
<b>Input Resistance:</b>	~820 Ohms
<b>Command Input Value:</b>	+5 to +V Supply ( Abs. Maximum )
<b>Step UP/DOWN adjust:</b>	~0 to ~100%
<b>Ramp Times:</b>	50mS to ~1 Sec Separate UP and Down settings
<b>Housing Material:-</b>	High Impact resistance ABS.
<b>Wire Connections:-</b>	1M/3' pre-connected color coded cable
<b>Encapsulation:-</b>	Flameproof epoxy resin filled
<b>Mounting:-</b>	DIN 43650 connector footprint
<b>Temperature range:-</b>	-20 to +70 °C ( operational )
<b>NEMA/IP Rating:</b>	NEMA 6 / IP65 when assembled and

## Adjustment Guide and Operation Overview:



- All potentiometers are single turn variety - adjust with care
- ALL potentiometers are clockwise to increase respective value
- Unit is fully encapsulated in flame resistant black epoxy resin
- Controller M3 x 40 mounting screw and gasket supplied

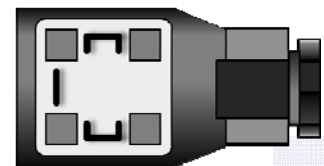
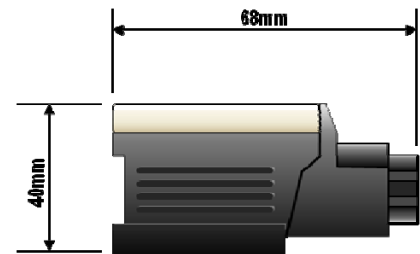
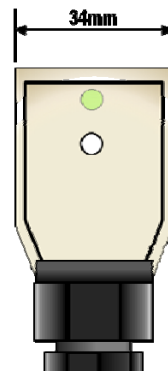
## Installation Guide and Dimensional Data:



### Industry Standard DIN 43650 valve interface.

For maximum operational life, ensure that all parts supplied are re-assembled correctly after adjustment and the PTD-SS1 is securely and firmly mechanically mounted to the valve coil using the provided mounting hardware.

Pre-wired cable removed for clarity



## Need More Information ?

For customer service, pricing, order placement and application support, contact us through E-mail at:  
[info@hctcontrols.com](mailto:info@hctcontrols.com)

[www.hctcontrols.com](http://www.hctcontrols.com)



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