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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

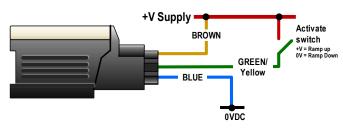
Complete with 1M/3 feet of color coded wire for fast, easy connection

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

Electrical Connections and Controller Specification Overview:



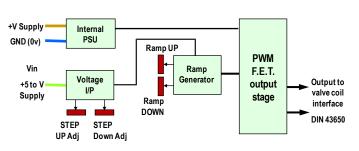
BROWN +V Supply Input

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



Housing Type:-HCT unique 'encapsulated' block.

Order PTD-SS1

Input Supply Voltage: +10 to +30VDC (Abs. Maximum)

Output Current: 3.0 Amps Max (limited) **Output Power:** 36W (Abs. Maximum)

Coil Resistance: 4.8 to 30 Ohms @ 20°C **Command Input Type:**

Input Resistance: ~820 Ohms

Command Input Value: +5 to +V Supply (Abs. Maximum)

Voltage only

Step UP/DOWN adjust: ~0 to ~100% Ramp Times: 50mS to ~1 Sec

Separate UP and Down settings Housing Material:-High Impact resistance ABS.

Wire Connections:-1M/3' pre-connected color coded cable

Encapsulation:-Flameproof epoxy resin filled Mounting:-DIN 43650 connector footprint

Temperature range:--20 to +70 °C (operational)

NEMA/IP Rating: NEMA 6 / IP65 when assembled and



High Country Tek, Inc.

Electronic Soft Shift Controller - PTD-SS10

Electronic Controller Solutions for Mobile, Industrial & Marine Applications.

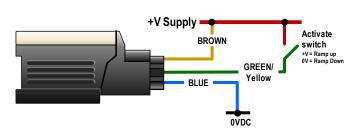
Application Information:

- 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 ~10 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

Electrical Connections and Controller Specification Overview:



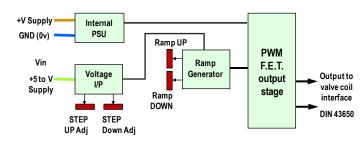
BROWN - +V Supply Input

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



Housing Type:- HCT unique 'encapsulated' block.

Order PTD-SS10

for this unit

Input Supply Voltage: +10 to +30VDC (Abs. Maximum)

Output Current: 3.0 Amps Max (limited)

Output Power: 36W (Abs. Maximum)

Coil Resistance: 4.8 to 30 Ohms @ 20°C

Command Input Type: Voltage only
Input Resistance: ~820 Ohms

Command Input Value: +5 to +V Supply (Abs. Maximum)

Step UP/DOWN adjust: ~0 to ~100%

Ramp Times:

Separate UP and Down settings

Housing Material:- High Impact resistance ABS.

Wire Connections:- 1M/3' pre-connected color coded cable

Encapsulation:- Flameproof epoxy resin filled

50mS to ~10 Sec

Mounting:- DIN 43650 connector footprint

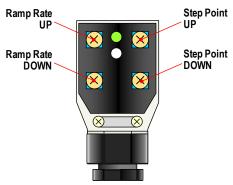
Temperature range: -20 to +70 °C (operational)

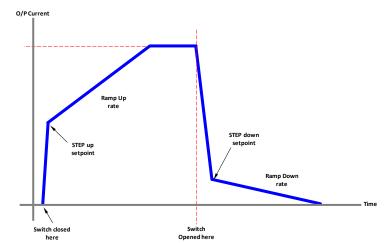
NEMA/IP Rating: NEMA 6 / IP65 when assembled and

HCT locto-Hydrasic actor-Hydrasic

Electronic Soft Shift Controller - PTD-SS1 & PTD-SS10

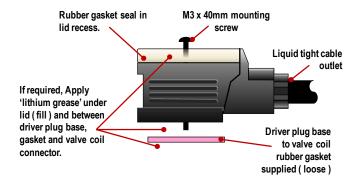
Adjustment Guide and Operation Overview:

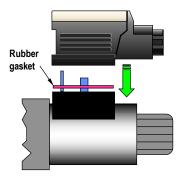




- All potentiometers are single turn variety adjust with care
- ALL potentiometers are clockwise to increase respective value
- Unit is fully encapsulated in flame resistant black epoxy resin
- Controller M3 x 40 mounting screw and gasket supplied

Installation Guide:

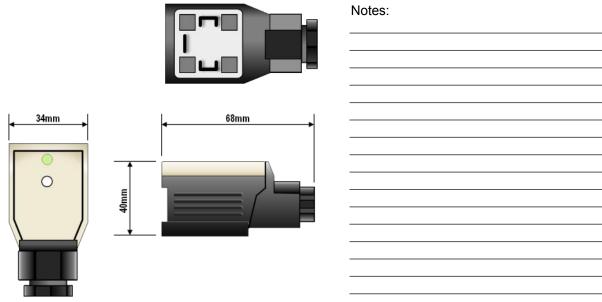




Industry Standard DIN 43650 valve interface.

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.

Dimensional Data:



Pre-wired cable removed for clarity