

PC-V2 Variable Voltage Controller

Description

The PC-V2 Variable Voltage Modules (V2) are designed to be used with either our sealed **Flex Button Actuator** or our sealed **Rocker Actuator** for “in cab” or outdoor environments.

The controllers work by using proven Hall Effect sensor technology. A small magnet embedded in the actuator is moved relative to the Hall Effect sensor to provide an output signal that is proportional to the button position.

These tough V2 modules supply a signal level 0.8 - 4.2 VDC output for connection to external processors or valve driver cards. The electronics are environmentally sealed and well protected against accidental electrical short circuits, over voltages and incorrect installation.

Our innovative Flexing Actuators have virtually eliminated the possibility of water, ice or dirt contamination and have been tested for millions of cycles.

These compact modules are perfect where a simple input device is needed to improve machine control or to help reduce damaging pressure spikes. The V2 modules can be mounted in both trigger and faceplate locations; consult the factory for details.

Features

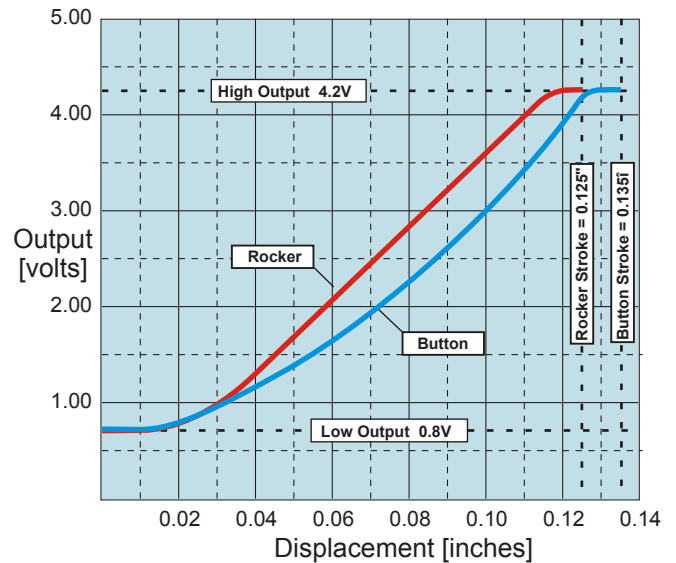
- Variable Voltage output: 0.8 - 4.2 VDC
- Sealed electronics, non contact operation
- Reverse voltage protected
- Full short circuit protection
- Incorrect installation protected
- Three actuators styles available
- Actuators rated up to 10 million cycles
- Fits into C and L series handles
- Trigger and faceplate installations
- Typical actuation force: 250 - 500 grams
- Operating temperature range: -40C to +70C

Applications

- Rotary grapples
- Grab Arms
- Feed Rollers
- Hydraulic Cylinders
- Motor Speed Control
- Blade Control



Variable Voltage Module: Output v.s. Displacement



Symbol	Parameter	Min.	Typical	Max.	Units
V _{SUPPLY}	Operational Voltage Range (+ input to ground)	4.5	5.0	5.5	V
V _{SUPPLY}	Survival Voltage (+ input to Ground)	-35	-	35	V
V _{OUT}	Output Terminal Short Circuit Voltage Tolerance	-20	-	48	V
R _L	Resistive Output Load	4.5	10	-	KΩ
V _{FR}	Calibrated Output - (over full actuator range)	0.8	-	4.2	V
V _{OH}	Full Signal Output Voltage (V _{SUPPLY} = 5.0 V; ≥ 10k)	3.9	4.2	4.3	V
V _{OL}	No Signal Output Voltage (V _{SUPPLY} = 5.0 V; ≥ 10k)	0.7	0.8	0.9	V
T _{OP}	Operational Temperature	-40	-	70	deg C