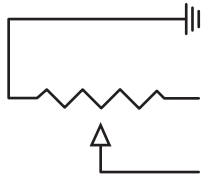


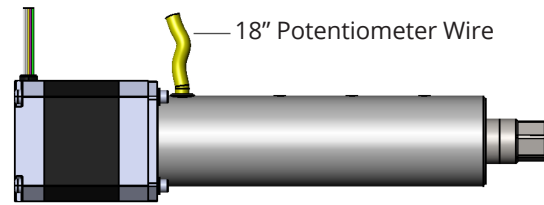
Internal Potentiometer



Black (Ground)

Brown (V+)

Blue (Reference)



Potentiometer wire on D1 actuator for reference

General	The linear potentiometer on your actuator is intended to be used as a voltage divider. A voltage is to be applied across the brown and black wires and a reference voltage is to be read from the blue wire. The recommended and maximum voltage values to be applied depend upon the maximum resistance of the potentiometer but as a guideline, we suggest:
Voltage	2 inch stroke: Less than 39 volts recommended, 50 volts max. 4 inch stroke: Less than 50 volts recommended, 63 volts max. 8 inch stroke: Less than 70 volts recommended, 90 volts max.
Resistance	Max: 2 inch stroke: 3k Ohms 4 inch stroke: 5k Ohms 8 inch stroke: 10k Ohms Min: 90 to 900 Ohms Tolerance: ±20%
Linearity	±2%
Repeatability	No hysteresis
Power Rating	Depending on size, varies with length and temperature: 1 Watt max. @ 25°C, ≤0.5 Watt recommended
Resolution	Analog output is theoretically infinite and will depend on the resolution of your ADC
Dielectric Value	No affect @ 500VAC for 1 minute