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B2 series actuator

Installation Instructions

The B2 is a small 12-14 Volt DC actuator featuring internal travel limiting switches. A lesser voltage can be used, but will result in less power and slower travel speed. When activated, the actuator will continue to run until the power is turned off or until it automatically shuts off at the end of its travel. It can also be stopped in any position by switching off the power. Since the thrust is generated by means of a jackshaft, the output shaft will lock in any position when the power is off.

The B2 actuator is designed to work with our C1 series clevis. The B2 actuator is internally lubricated and should not need any other lubrication.

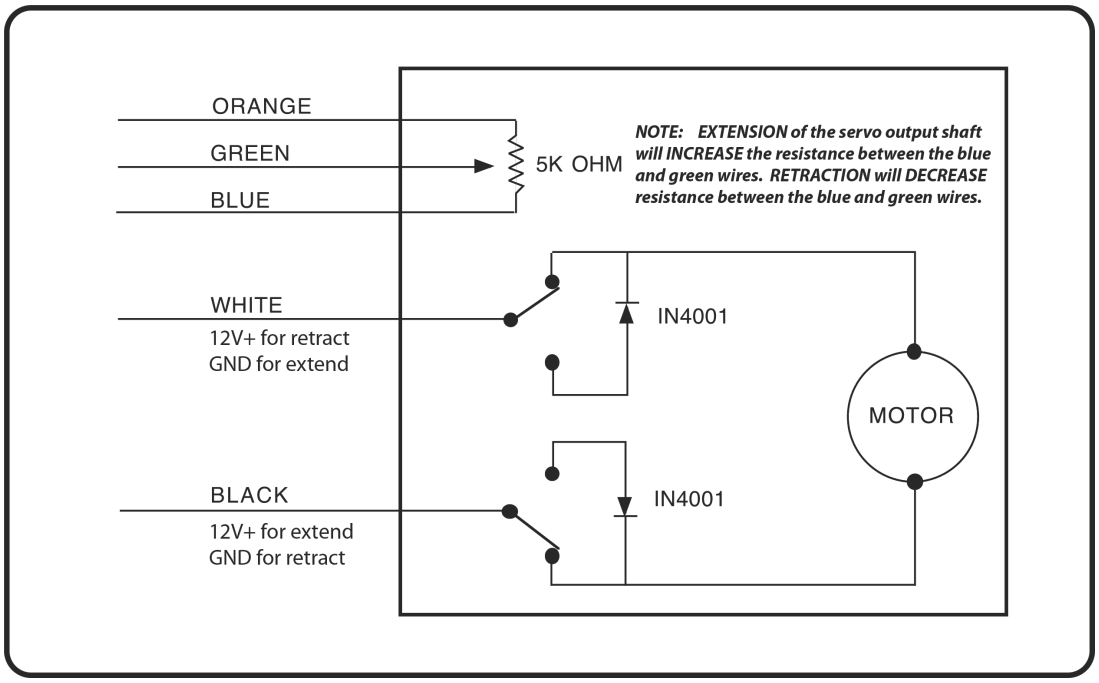
Figure 1 on page 2 describes the functions of the different wire leads. Voltage polarity determines the direction of travel. If 12 V+ is applied to the black wire, the actuator will extend. If 12 V+ is applied to the white wire, the actuator will retract. If you are using your own switching device remember that it will have to reverse the voltage polarity along with switching the power on and off.

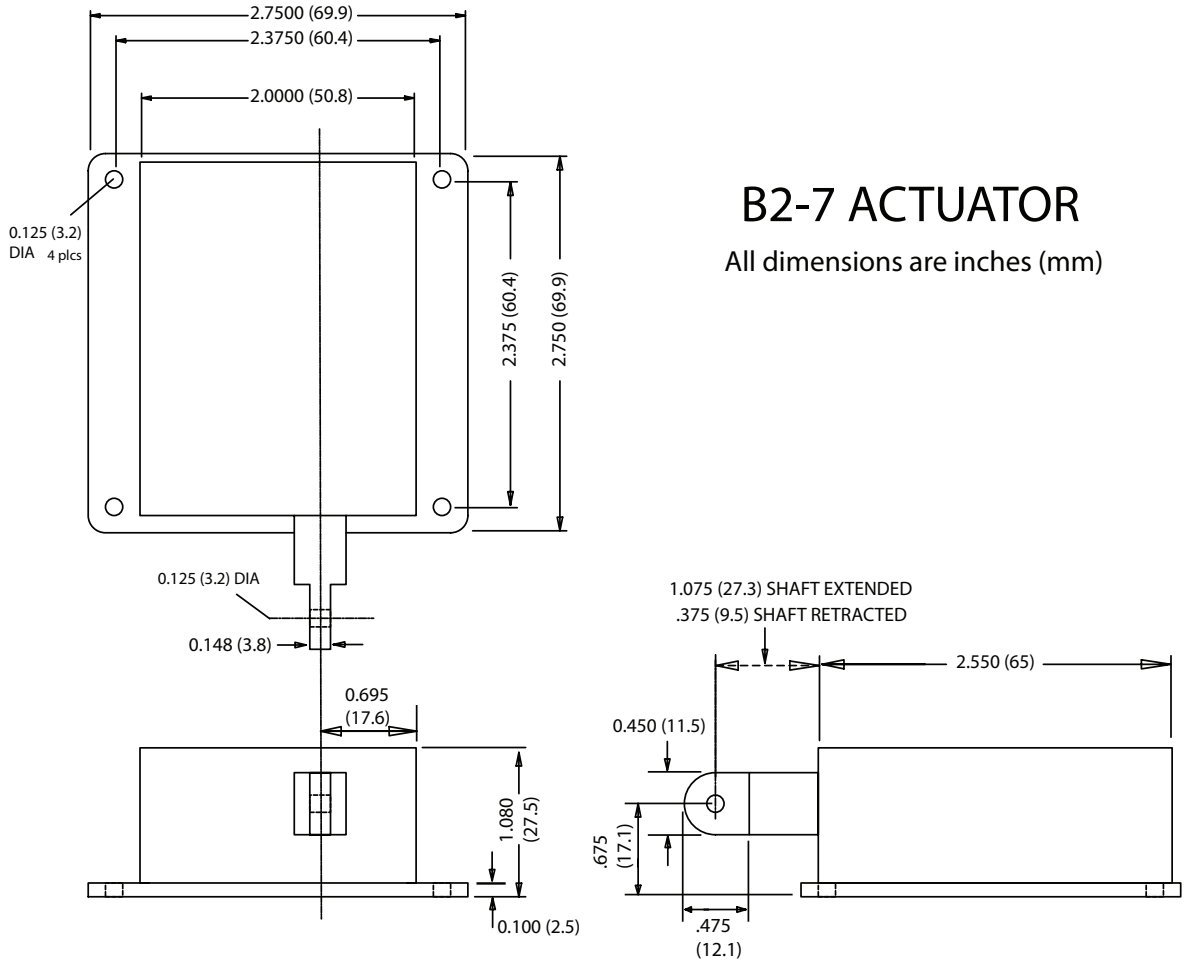
The B2 actuator has an internal, electronically isolated, 0-5K ohm linear potentiometer to measure the position of the output shaft. The resistance between the green wire and the blue wire will increase as the output shaft extends out of the actuator.

B2 series actuator specifications

Model No.	Operating Voltage	Travel Inch (mm)	Travel time (@13.5 VDC)	Weight OZ (g)	Operating thrust lb.(kg)	Stall thrust (@12VDC) lb.(kg)	No load current	Stall current
B2-7	12-14 VDC	.7 (18)	11 seconds	4 (113)	20 (9)	40 (18)	100-200 mA	900 mA

Figure 1 B2 actuator internal wiring diagram.





B2-7 ACTUATOR

All dimensions are inches (mm)