



SMA-12

12 VDC Bipolar Step Motor Actuator

1. Connect any Sporlan bipolar step motor valve to the SMA-12 by matching wire color to terminal color, see Figure 1. For ESX connections, refer to Figure 2. Any 12 VDC bipolar step motor may be tested with the SMA-12. Phase one leads should be connected to the black and white terminals, Phase two should be connected to the red and green terminals.
2. Select a step rate with the selector knob. ESX should use the 1 or 50 step rate, all other valves may use any rate.
3. Push the open/close toggle in the **close** direction to extend the driver or close the valve.
4. Push the open/close toggle in the **open** direction to retract the driver or open the valve.
5. Observe terminal indicator lights. At rates other than **1**, indicator lights will flash quickly. Pushing the **open/close** toggle in either direction at the **1** step rate will alternate the phases energized.

The following sequence of indicator lights will light.

OPENING
Black & Red
Red & White
White & Green
Green & Black

CLOSING
Red & White
Red & Black
Black & Green
Green & White

6. Check that the **power** indicator light is lit, if not replace the batteries.
7. If the terminal indicator lights do not light, one or both motor phases are open and the motor must be replaced.

8. If the motor can be powered smoothly in both directions the motor assembly is functional and the controller must be tested or replaced.

SPECIFICATIONS

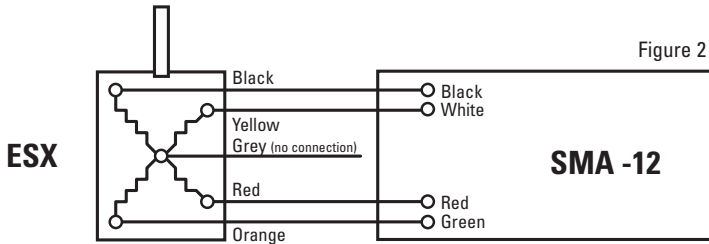
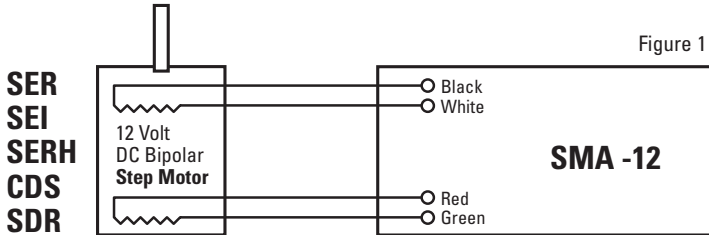
Power input - 2 Alkaline 9 volt batteries

Power output - 10 Watts intermittent

Step rate - Selectable - 1, 50, 100, 200 steps per second

Drive type - Bipolar, Unipolar

Connector - Binding post with banana plug socket



Accessory pigtail item number 958112 is available, at extra charge, to allow SMA-12 to directly connect to all Sporlan Packard Weather-Pack™ equipped valves.



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