



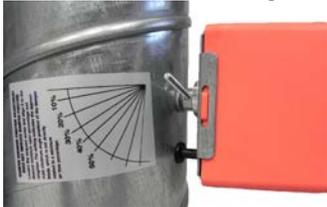
Controlling Your Comfort Room by Room

The spring return damper motor actuator is designed to operate automatic air control dampers.

This actuator features a synchronous hysteresis motor designed for long life with unique "lost motion" drive to protect the gear train from closing shock. THE MSS has been cycle tested to over 250,000 cycles and has been specifically designed for silent operation. Many spring return motors have a loud gear noise as the damper spring returns to its normal position. The MSS has a patented design air brake slowing the spring return motion to minimize the noise.

This actuator is made for easy replacement. The MSS is directly coupled to a 5/16" damper blade shaft via coupler and set screw. The wiring connections are made with wire nuts to the wire leads that pass thru the plastic strain relief grommet.

### Minimum Position Adjustment



The minimum position screw can also be used to determine the damper position. The setscrew is aligned with the position of the damper blades. When the setscrew is in line with the duct, pointed at the Closed on the minimum position label, the damper is actually open. When it is hidden behind the motor and stopped against the anti-rotation post on the motor, it is Closed or at the minimum position.

*Note: Damper minimum position adjustment does not necessarily indicate damper position.*

## Spring Return Damper Motor Actuator Model MSS



### SPECIFICATIONS

Electrical Rating	6.5 Watts, 7VA	
Motor Voltage	24 Volts VAC +- 20% 50/60 Hz	
Output	Direct Drive	5/16". deep coupler/set screw to 5/16" damper blade shaft.
Torque Rating	Power Start: 70in-oz., Power Finish: 40in-oz.	<u>Stroke Speed</u> 30 Seconds
	Spring Start: 60in-oz., Spring Finish: 30in-oz.	20 Seconds
Temperature Limits	0°F to 150°F Operating, -20°F to 175°F Storage (Ambient)	
Shipping Weight	1.5 lbs. (680G)	

The above specifications are nominal and conform to generally acceptable industry standards. ZONEFIRST is not responsible for damages resulting from misapplication or misuse of its products.