

**Spring Return Damper
Motor Actuator
Model MSS**

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 and damper spring returns to its normal position. The MSS has a patented design air brake slowing the spring return motion to eliminate the noise.

This motor is made for easy replacement and includes a hex wrench used to loosen the set screw of the old motor and to tighten the new motor. The MSS has an easy slip-on cover for wiring that secures tightly with a screw. The wiring connections are made with wire nuts to wire leads and pass thru the plastic strain relief grommet.

The MSS is used with ZDS, ZDB, RDS, RTS and RRS dampers and replaces the RDMA, RDMH, RDMZ and MSR.



SPECIFICATIONS

Electrical Rating	6.5 Watts, 7VA	
Motor Voltage	24 Volts A.C. 50/60 Hz	
Output	Direct Drive	5/16 in. Deep Coupler for 5/16 shaft.
Torque Rating	Power Start: 65in-oz., Power Finish: 45in-oz.	<u>Stroke Speed</u> 30 Seconds
	Spring Start: 45in-oz., Spring Finish: 30in-oz.	8 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.