

1. Damper Actuators

Mx4D-703x/803x Series 30 lb-in Direct Coupled SR

Mx4D-703x and Mx4D-803x Series 30 lb-in Direct Coupled Damper Actuators

Features

- Two position models controlled by SPST controller
- Floating models controlled by SPDT floating controllers
- Jumper selectable control function direct/reverse action
- Spring return models provide 30 in-lb (3.4 N-m) of torque
- Polymer housing rated for NEMA 2/IP54
- Overload protection throughout stroke
- Floating and proportional models automatically adjust input span to match the damper/valve travel
- Compact size allows installation in limited space
- Manual override allows positioning of dampers and valves
- Directly mounts to 1/2...3" Schneider Electric ball valves
- Polymer housing rated for plenum use



Product Description

Designed for controlling air dampers in building systems that require fail safe return, with two position, floating or proportional control.

Specifications	
Control Signal	Refer to the tables for actuator models and control types.
Power Inputs	See table.
Connections	3 ft (91 cm) appliance (see * in table below) or 10 ft. (3 m) plenum cables, enclosure accepts 1/2" (13 mm) conduit connector.
Electrical Outputs	Position Feedback Voltage (proportional or floating only): For voltage ranges, the feedback signal is the same range as the input signal. The 4...20 mA current range and floating actuators have a 2...10 Vdc feedback signal. The feedback signal can supply up to 0.5 mA to operate up to four additional slave actuators.
Mechanical Outputs	Travel: 93° nominal. Manual Override: Allows positioning of damper or valve using manual crank. RA/DA Jumper: Permits reverse acting/direct acting control (MS4D models only).

Ambient Temperature Limits	Shipping & Storage: -40...160°F (-40...71°C). Operating: -22...140°F (-30...60°C). Humidity: 15...95% RH, non-condensing.
Location	NEMA 1, NEMA 2, UL Type 2 (IEC IP54) with customer supplied water tight conduit connectors. Enclosure is air plenum rated.
Agency Listings	UL 873: Underwriters Laboratories (File #E9429 Category Temperature-Indicating and Regulating Equipment). CUL: UL LISTED for use in Canada by Underwriters Laboratories. Canadian Standards C22.2 No. 24-93. This product fits in Installation Category (Overvoltage Category) II per EN 61010-1.
Applicable Literature	F-27170 Installation Instructions

Part Number	Torque lb-in (N-m)	Spring Return	Actuator Inputs			Outputs		Approximate Timing in seconds @ 70°F	
			Control	Voltage	VA @ 60Hz	Feedback	Auxiliary Switch	Powered	Spring Return
MA4D-7033-100	30 (3.4)	CCW	2 Position	24 Vac/dc	5.1	—	No	56	23
MA4D-7030-000*				120 Vac	7.8				
MA4D-8033-100				24 Vac/dc	5.1				
MA4D-8030-000*				120 Vac	7.8				
MF4D-7033-100		CW	Floating	24 Vac/dc	6.8	2...10 vdc	No	85	21
MF4D-8033-100									
MS4D-7033-100		CCW	2...10 vdc		6.1	0...10 vdc			
MS4D-7033-150									
MS4D-7033-160					0...10 vdc				
MS4D-8033-100						CW			
MS4D-8033-150		2...10 vdc							
MS4D-8033-160			0...10 vdc						
MS4D-8033-160		4...20 ma							