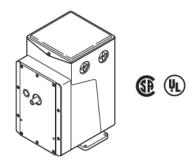
Two-Position, Non-Spring Return Actuators

This actuator provides two-position operation of dampers or valves in heating, ventilating, and air conditioning systems, and similar applications where return-to-normal position is not required.

Features:

- · Two-position actuators controlled by SPDT controller.
- · Non-spring return.
- 24, 120, and 240 Vac models available.
- · SPDT auxiliary switch is standard.
- · Rugged die cast aluminum housings.
- · Oil immersed motor and gear train.



Model Chart								
Model No.	Input				No Load Timing (sec/180°)	Rated Torque Ib-in.		
	Volts	Hz	Watts	VA Rating	No Load Tilling (Sec/160)	(N-m)		
MC-351	24	60	28	53	70	220 (25)		
MC-421	120	60	50	96	20	175 (19)		
MC-431	120	60	50	96	30	220 (25)		
MC-4311	240	60	50	96	30	220 (25)		
MC5-4311 ^a	240	50	50	96	36	220 (25)		

a No CSA on MC5-4311.

Specifications		
Control Circuit	Three wire, SPDT snap-acting switch provided by a thermostat, pressure switch, or relay	
Shaft Rotation	Unidirectional clockwise 180° when power is applied.	
Auxiliary Switch	Adjustable SPDT is standard. Factory set to make (or break) at mid-stroke.	
Nominal Damper Ares	Actuator sizing should be done in accordance with damper manufacturer's specifications.	
Environment		
Ambient temperature limits	Shipping and storage: -40 to 136°F (-40 to 58°C). Operating: -40 to 136°F (-40 to 58°C).	
Humidity	5 to 95% RH, non-condensing.	
Locations	NEMA Type 1. NEMA 4 with AM-363.	
Connections	Coded screw terminals.	
Case	Die cast aluminum with two 1/2 in. conduit knock-outs on each side.	
Mounting	Allow 6 in. (152 mm) clearance above the actuator wiring compartment.	
Dampers	Any position.	
Valves	In any upright position with actuator above the center line of the valve body.	
Dimensions	7 H x 5-3/8 W x 6-5/16 D in. (178 x 137 x 160 mm).	
Options	Hazardous locations: specify MC6-431, MC6-4311 (60 Hz), MC7-4311 (50 Hz).	
General Instructions	Refer to F-08366.	

Adjustable Auxiliary Switch SPDT Rating Amps.

Туре	120 V	240 V
Running	5.8	2.9
Locked Rotor	34.8	17.4
Non-Inductive	12.0	6.0

Valve linkage for 1/2 to 2 in. VB-7xxx and 1/2 in. to 1-1/4 in. discontinued VB-92x3, or VB-93x3.

Accessories Model No. Description Damper linkage accessories AM-111 Crank arm for 5/16 in. (7.9 mm) diameter damper shaft. AM-112 Crank arm for 3/8 in. (9.5 mm) diameter damper shaft. AM-113 Crank arm for actuator or 1/2 in. (12.7 mm) diameter damper shaft. AM-115 Crank arm for 7/16 in. (11.1 mm) diameter damper shaft. AM-116 Splined crank arm for actuator. AM-122 Linkage connector straight type. AM-123 Damper clip. AM-125 5/16 in. (7.9 mm) diameter x 20 in. (508 mm) damper rod. 5/16 in. (7.9 mm) diameter x 48 in. (1,219.2 mm) damper rod. AM-125-048 AM-132 Ball joint connector. AM-161 Damper linkage kit. AM-161-1 Damper linkage kit. AM-301 90 degree mounting bracket. Miscellaneous actuator accessories AM-321 Two step switch kit. AM-341 Four step switch kit. NEMA 4 gasket kit. AM-363 Valve linkage accessories AV-30 & AV-300 Valve linkage for 2-1/2 in. & 3 in. VB-9323. AV-352 Valve linkage for 2-1/2 in. to 6 in. VB-9213, 2-1/2 in. through 6 in. VB-9313, 4 in. through 6 in. VB-9323.

Valve linkage for 1-1/2 in. and 2 in. VB-92X3, or VB-93x3

Valve linkage for 2-1/2 in. to 4 in. VB-9213, and VB-9313.

Typical Applications

AV-393

AV-394

AV-396

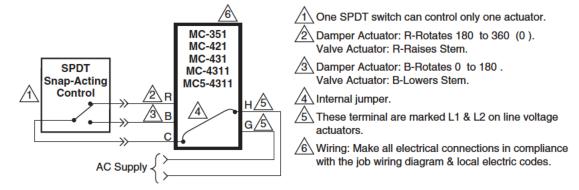


Figure 1 Typical Wiring.