

Direct Coupled Damper Actuator—Spring Return

ML4135; ML8135

HVAC, Fast-Acting, Two-Position Actuators, 40 lb-in



The ML8135 Fast-Acting, Two-Position Actuators are spring return direct coupled actuators (DCA) with an integral junction box for on/off damper control.

- Integral spring return
- -40 C to 130 F (-40 C to 54 C) operating temperature range
- No audible noise during holding
- Electronic circuitry provides efficient operation while eliminating the need for limit switches
- Ninety-five degree angle of rotation
- Die-cast aluminum housing
- Housing design allows flush mounting to damper
- Integral junction box with three conduit openings eliminates need for separate wiring box
- Direct mounting to 3/8 or 1/2 in. round or square shaft
- Not intended for smoke control systems

Actuator Type: Damper

Rotational Stroke: 95 ±3 degrees

Fail Safe Mode: Spring Return

Torque Rating: 40 lb-in. (4.5 Nm)

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Dimensions, Approximate: 7.5 in high x 5.13 in wide x 3.32 in deep
(192 mm high x 129 mm wide x 84 mm deep)

External Auxiliary Switches Available: Yes, 32003532-005

Number of Internal Auxiliary Switch: 0

Electrical Connections: Two color-coded leads

Electrical Connection Length: 16 in. (406 mm)

Environmental Rating: NEMA1

Frequency: 60 Hz

Mounting: Direct Coupled

Maximum Noise Rating, Holding (dBA @ 1m): 20 (no audible noise)

Maximum Noise Rating, Driving (dBA @ 1m): 65

Compatible Damper Shafts: 3/8 to 1/2 in. square or round
(10 to 13 mm square/round)

Shaft Adapter Type: Aluminum Hub, four set screws

Materials: Aluminum housing

Operating Humidity Range (% RH): 5 to 95% RH, non-condensing

Ambient Temperature Range: x-40 F to +130 F (4.5 Nm)

Storage Temperature Range: -40 F to +140 F (-18 C to +60 C)

Weight: 6 lb (2.72 kg)

Comments: Integral junction box with three 7/8 in. conduit openings
(fittings not included)

Approvals

Underwriters Laboratories, Inc: UL873, Plenum Rated

Canadian Underwriters Laboratories, Inc: cUL C22.2 No. 24-93

Product Number	Control Signal	Timing (seconds)			Power Consumption		Supply Voltage	Includes	Spring Return Direction
		Maximum Driving @ 60 Hz	Nominal Driving @ 60 Hz	Maximum Spring Return (sec)	Driving	Holding			
ML4135A1007/U	Two position; SPST	25 sec	20 sec	15 sec	0.18A, 18W	0.11A, 9W	120 Vac ±10%	Mounting bracket, ground screw	CCW
ML4135B1006/U	Two position; SPST	25 sec	20 sec	15 sec	0.18A, 18W	0.11A, 9W	120 Vac ±10%	Mounting bracket, ground screw	CW
ML8135A1003/U	Two position; SPST	25 sec	20 sec	15 sec	18 VA	8.5 VA	24 Vac +20%, -10%	Mounting bracket	CCW
ML8135B1002/U	Two position; SPST	25 sec	20 sec	15 sec	18 VA	8.5 VA	24 Vac +20%, -10%	Mounting bracket	CW

Commercial Components