

# M9102 - M9104 Series Damper Actuators



### M9102 - M9104 SERIES

- Simple direct coupling reduces installation and commissioning time and improves reliability by eliminating damper linkages. Single screw coupling provides three-point shaft gripping
- Small, compact design allows installation in tight-fitting locations designed for zone damper actuator applications
- Rotation range 93 degrees CW or CCW
- Fits 3/8 to 1/2" (10 to 13 mm) round or 3/8" (10 mm) square shaft
- On-off, floating and proportional control inputs
- Proportional models are dip switch selectable for DA / RA and DC 0...10 V or DC 2...10 V operation
- DC 0(4) ... 20 mA proportional control w/optional 500 Ohm resistor
- Models available with 30 or 60 second running time at 60 Hz

- Long life brushless synchronous drive motor technology – provides constant running time independent of load
- Robust 18 lb-in (2 Nm) and 35 lb-in (4 Nm) torque rating
- Whisper quiet 35 dBA noise rating
- Magnetic clutch provides over torque protection over the entire range of rotation
- -4 to 125°F (-20 to 52°C) ambient temperature rating
- 100,000 full stroke cycle, 1,500,000 reposition rating
- Manual gear release simplifies setup and field adjustments position feedback (GGX models) provides simple, closed-loop control with accurate position sensing.
- cULus Listed, CE Mark

#### M9102 - M9104 SERIES NON-SPRING RETURN DAMPER ACTUATORS

CODE NUMBER	CONTROL TYPE	TORQUE/TIMING/VOLTAGE	AUXILIARY SWITCHES	COMMENTS
M9102-AGA-2S	FLOATING WITHOUT TIMEOUT	18 LB-IN (2 NM) 30 SEC TIMING AT 60 HZ	NONE	48 IN. (1.2 M) 18 AWG UL CMP PLENUM CABLE
M9102-AGA-3S		AC 24 V 50/60 HZ		M3 SCREW TERMINALS
M9102-IGA-2S	ON-OFF / FLOATING WITH TIMEOUT			48 IN. (1.2 M) 18 AWG UL CMP PLENUM CABLE
M9102-IGA-3S				M3 SCREW TERMINALS
M9104-AGA-2S	FLOATING WITHOUT TIMEOUT	35 LB-IN (4 NM) 60 SEC TIMING AT 60 HZ AC 24 V 50/60 HZ		48 IN. (1.2 M) 18 AWG UL CMP PLENUM CABLE
M9104-AGA-3S				M3 SCREW TERMINALS
M9104-IGA-2S	ON-OFF / FLOATING WITH TIMEOUT			48 IN. (1.2 M) 18 AWG UL CMP PLENUM CABLE
M9104-IGA-3S				M3 SCREW TERMINALS
M9104-GGA-2S	DC 0(2) 10 V PROPORTIONAL			48 IN. (1.2 M) 18 AWG UL CMP PLENUM CABLE
M9104-GGA-3S				M3 SCREW TERMINALS



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## M910x - AGx - 2Nx Series Damper Actuators

### M910x - AGx - 2Nx SERIES

- Simple direct coupling reduces installation and commissioning time and improves reliability by eliminating damper linkages.
  Single screw coupling provides three-point shaft gripping
- Designed for zone damper applications
- Small, compact design allows installation in tight-fitting locations
- Adjustable 30 or 90 degrees CW or CCW rotational range
- Fits 3/8 to 1/2" (10 to 13 mm) round or 3/8" (10 mm) square shaft
- Floating
- 15, 30, 60 and 90 second running time at 60 Hz
- Long life brushless synchronous drive motor technology – provides constant running time independent of load

- Robust 35 lb-in (4 Nm) and 53 lb-in (6 Nm) torque ratings
- Whisper quiet 35 dBA noise rating
- Magnetic clutch provides over torque protection over the entire range of rotation
- 35 to 125°F (-20 to 52°C) ambient temperature rating
- 100,000 full stroke cycle, 2,500,000 reposition rating
- Manual gear release simplifies setup and field adjustments
- Adjustable rotation stops allow application versatility with 30 to 90° clockwise or counterclockwise rotation
- · UL Listed, CSA Certified, CE Mark

#### M910X - AGX - 2NX SERIES NON-SPRING RETURN DAMPER ACTUATORS CODE NUMBER CONTROL TYPE TORQUE/TIMING/VOLTAGE AUXILIARY SWITCHES COMMENTS 35 LB-IN (4 NM) M9104-AGA-2N FLOATING NONE 90 SEC TIMING AT 60 HZ AC 24 V 50/60 HZ ACTUATOR INCLUDES A M9104-AGS-2N DPT-2015 AND CBL-2000-1 53 LB-IN (6 NM) ACTUATOR ONLY M9106-AGA-2N01 60 SEC TIMING AT 60 HZ AC 24 V 50/60 HZ M9106-AGA-2N02 53 LB-IN (6 NM) 120 SEC TIMING AT 60 HZ AC 24 V 50/60 HZ M9106-AGS-2N02 ACTUATOR INCLUDES A DPT-2015 AND CBL-2000-1

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