

OpenAir® GPC Series, Spring Return, 35 lb-in (4 Nm), Rotary Electronic Damper Actuators

Product Number	Torque		Voltage		Control Signals			Plenum Cabling	Appliance Cable	Auxiliary Switch
	35 lb-in	24 Vac/dc	100 to 240 Vac	2-Position	Floating	Modulating 0(2) to 10 Vdc/ 10 to 0(2) Vdc				
GPC121.1P	●	●	—	●	—	—	●	—	—	
GPC126.1P	●	●	—	●	—	—	●	—	●	
GPC131.1P	●	●	—	—	●	—	●	—	—	
GPC136.1P	●	●	—	—	●	—	●	—	●	
GPC161.1P	●	●	—	—	—	●	●	—	—	
GPC166.1P	●	●	—	—	—	●	●	—	●	
GPC321.1U	●	—	●	●	—	—	—	●	—	
GPC326.1U	●	—	●	●	—	—	—	●	●	

Technical Data

Torque	35 lb-in (4 Nm)
Runtime for 90°	60 seconds
Spring Return	15 seconds typical
Nominal angle of rotation	90° typical
Power consumption:	
	Running Holding
GPC12x @ 24 Vac, 60 Hz	3.4 VA (2.0W) 2.6 VA (1.6W)
GPC13x @ 24 Vac, 60 Hz	3.5 VA (2.1W) 2.8 VA (1.7W)
GPC16x @ 24 Vac, 60 Hz	3.5 VA (2.1W) 2.8 VA (1.6W)
GPC32x @ 120 Vac, 60 Hz	4.6 VA (2.4W) 3.5 VA (1.7W)
Damper shaft size	3/8-inch to 1/2-inch diameter (8 mm to 13 mm) 1/4-inch to 7/16-inch square (6 mm to 11 mm)
Damper shaft size, minimum	3/4-inch (20 mm) minimum length
Agency listings	UL listed per UL 60730 cUL listed to CSA 60730
CE Conformity	EMC, ROHS2 and Low Voltage Directives
FCC Conformity	Part 15 Class B Emissions
Australia Conformity	RCM requirements
Ambient temperature	
Operating	–25°F to 130°F (–32°C to 55°C)
Storage/transport	–40°F to 158°F (–40°C to 70°C)
Ambient humidity (non-condensing)	95% rh (non-condensing)
Pre-cabled connection	18 AWG (0.75 mm ²), 3 ft (0.9 m) long
Enclosure	NEMA 1
Housing material	Plenum rated rugged plastic
Fixed Dual End Switches	24 Vdc, 24 Vac to 250 Vac 6A resistive 2FLA/12 LRA, SPST Fixed 5° and 85°
Dimensions:	5.61" × 2.83" × 2.48" (142.6 mm × 72 mm × 63 mm)
Weight	1.32 lb (0.60 kg)

Description

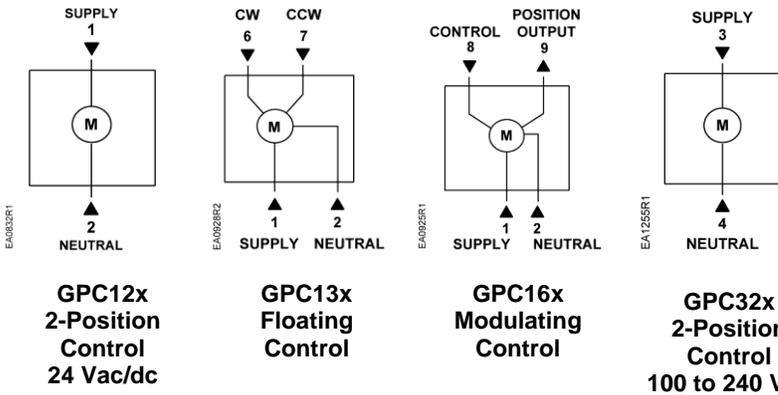
The OpenAir GPC Series direct-coupled, spring return rotary electronic damper actuators are 24 Vac/dc rated and available in 2-position, floating, and modulating [0(2) to 10 Vdc or 10 to 0(2) Vdc] control. The small footprint and torque make this actuator ideal for small HVAC dampers, economizer dampers, or residential zone dampers requiring fail-safe operation.



Features

- Bi-directional, fail-safe spring return
- Pre-cabled
- Plenum-rated models available
- Optional built-in auxiliary switches with fixed switch points at 5° and 85° rotation
- 60-second run time
- Signal inversion capability on modulating type [0(2) to 10 Vdc or 10 to 0(2) Vdc]
- Small footprint for installation flexibility
- UL and cUL listed; CE certified
- These devices were approved for installation in plenum areas by Underwriters Laboratories, Inc. per UL 2043.
- Low voltage models are 24 Vac/dc compatible
- 100 to 240 Vac models available
- 1/2" NPT conduit

Wiring Diagrams



**Auxiliary Switches
 GPCxx6.xx**

Actuator Position	Switch A Common Connected to	Switch B Common Connected to
0° to 5°	S3	S6
5° to 85°	S2	S6
85° to 90°	S2	S5

Figure 1. Wiring Diagrams.

**Dimensions
 in Inches (Millimeters)**

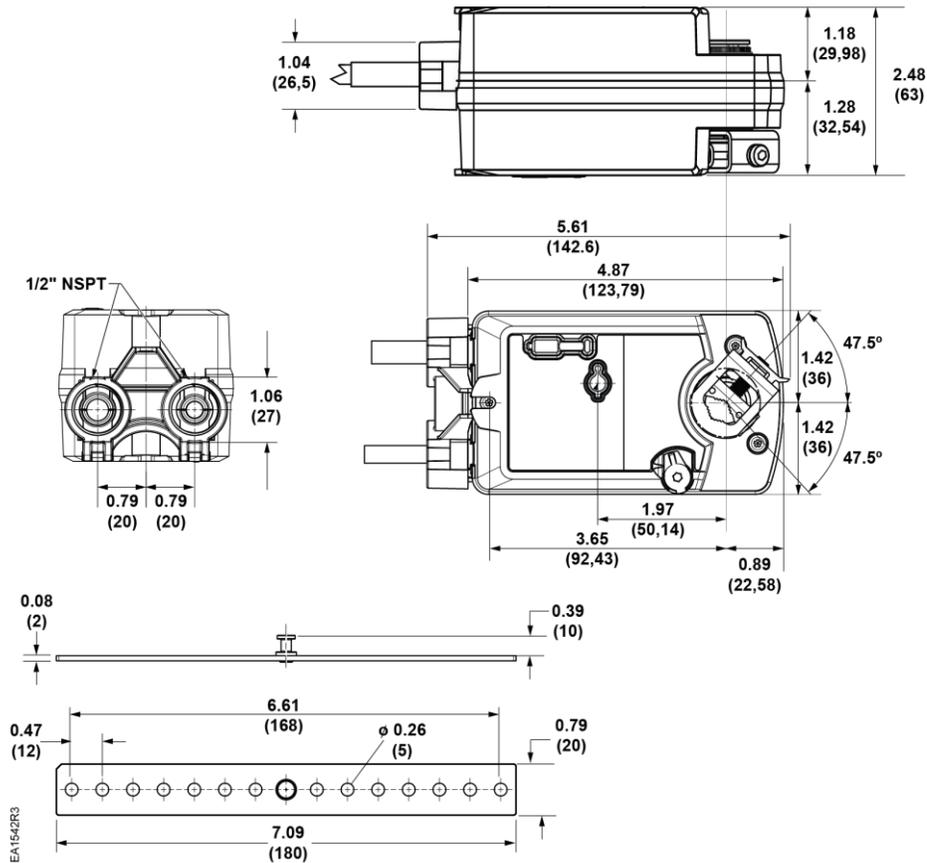


Figure 2. GPC Series Actuators with Mounting Bracket.

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