SIEMENS

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OpenAir[™] GSD Series, Non-Spring Return, 20 lb-in (2 Nm), Rotary Electronic Damper Actuators

Product Numbers

	Torque	Voltage		Control Signals				
Product Number	20 lb-in (2 Nm)	24 Vac/dc	100 to 240 Vac	2-Position/ Floating	Modulating 0(2) to 10 Vdc	Plenum Cabling	Appliance Cable	Auxiliary Switch
GSD141.1P	~	2	_	~	_	~	_	_
GSD146.1P	~	~		~	_	~	_	~
GSD341.1U	~		1	1	_	_	~	_
GSD346.1U	~		~	2	_	_	~	~
GSD161.1P	~	1	_	-	~	2	_	_
GSD166.1P	~	~		_	~	~	_	~

Technical Data

Operating voltage (GSD1x) (GSD3x)

Torque 20 Runtime for 90° 30 Solution 30 Power consumption Runnir

GSD14x, 24 Vac/dc 60 Hz GSD16x; 24 Vac/dc 60 Hz GSD34x; 120 Vac 60 Hz

Damper shaft size

Damper shaft length, minimum

Agency listings

120 through 240 Vac

Ambient temperature Operating Transport

Ambient humidity (non-condensing)

Pre-cabled connection Enclosure Housing material

Dimensions:

Weight

24 Vac ± 20%, 50/60 Hz 100 to 240 Vac ± 10%, 50/60 Hz

20 lb-in (2 Nm) 30 seconds 90° typical

Running Holding
2.2 VA (1.2 W) 1.0 VA (0.5 W)
2.4 VA (1.4 W) 1.2 VA (0.7 W)
4.5 VA (1.8 W) 2.4 VA (0.9 W)

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) 3/4-inch (20 mm)

UL listed per UL 60730

cUL listed to CSA C22.2 N. 24-93; CE certified

EMC and Low Voltage Directives

-25°F to 130°F (-32°C to 55°C) -25°F to 158°F (-32°C to 70°C)

<95% rh

18 AWG (0.75 mm²), 3 ft (0.9 m) long

IP54

Plenum rated rugged plastic

5.46" × 2.83" × 2.45" (138.8 mm × 72 mm × 62.5 mm)

1.54 lbs (0.55 kg)

1.77 lbs (0.7 kg) with packaging

Description

The OpenAir GSD Series direct-coupled, non-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 VAV boxes, small HVAC dampers, economizers, or residential zone dampers.



Features

- · Pre-cabled
- · Plenum rated models available
- Optional built-in auxiliary switches with fixed switch points at 5° and 85° rotation
- 30-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
- Fixed Dual End Switches
 24 Vac to 250 Vac/12 to 30 Vdc

6A resistive/2A inductive @ AC 4A resistive/2A inductive @ 30 Vdc 0.8A resistive, 0.5A inductive @ 60 Vdc

1/2" NPT conduit

Wiring Diagrams

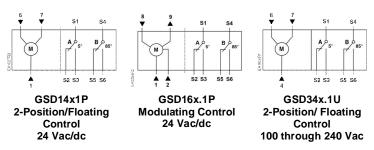


Figure 1. Wiring Diagrams.

Auxiliary Switches GSDxx6.1x

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		

Dimensions in Inches (Millimeters)

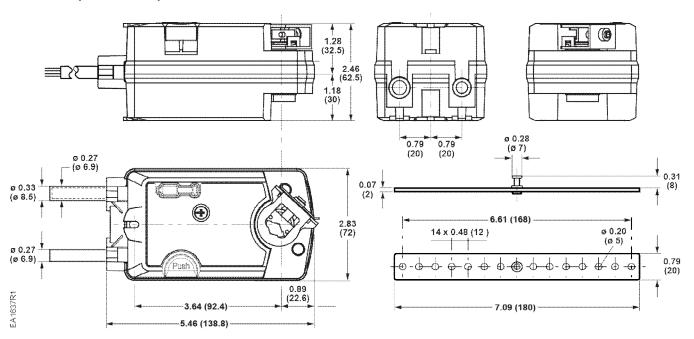


Figure 2. GSD Series Actuators with Mounting Bracket.

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