

Electronic Damper Actuator

Designed for UL Listed Fire/Smoke and Smoke Control Dampers



142 lb.-in. Torque
2-position, 15-second Runtime,
15-second Spring Return Time



GGD Series Electronic Damper Actuator.

Description

Intended for use on UL listed smoke control dampers or combination fire/smoke rated dampers, the OpenAir GGD Series Direct-coupled, Fast Acting, Two-position, Spring Return Electronic Actuators are available in 24 Vac, 115 Vac, and 230 Vac models.

Features

- High temperature rated drive system
- Reversible fail-safe spring return
- All metal housing
- Teflon® insulated lead wires
- Manual override
- Mechanical range adjustment
- Multiple shaft couplings available; will accommodate up to 1.05-inch shafts
- 15-second nominal open time
- 15-second nominal spring return time
- 24, 115 and 230 Vac models
- Assembled in the U.S.A

Options

- Optional built-in Auxiliary Switches: fixed switch points at 5° and 85° rotation

Applications

The GGD Series Spring Return Actuator is used for the control of dampers requiring up to 142 lb.-in. (16 Nm) driving torque. It is intended for control of UL listed smoke control dampers or combination fire/smoke HVAC dampers. This actuator is designed to meet the 2002 revisions to the UL 555S rating up to 350°F (177°C) and AMCA 500-D specifications.

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Damper Actuators

GGD Series Specifications

Operating Voltage	24 Vac ±20%
	115 Vac ±15%
	230 Vac ±10%
Frequency	50/60 Hz
Power Consumption	
Running	150 VA
Holding	10 VA
Torque	
Running	142 lb.-in. (16 Nm)
Spring Return	108 lb.-in. (12 Nm)
Minimum Stall	350 lb.-in. (39 Nm)
Runtime for 90°	
Operating with motor at 60 Hz	15 seconds nominal
Closing (on power loss) with spring return	15 seconds maximum
Nominal Angle of Rotation	95°
Life Expectancy	Minimum 35,000 full stroke cycles
Damper Shaft Size	
Standard	3/8 to 1-in. (8 to 25.6 mm)
Oversized	1.05-in. max. (26.6 mm)
Min. Shaft Length	3/4-in. (20 mm)
Housing	
Enclosure	NEMA 1
Material	Die-cast Aluminum Alloy

Temperature	
Operation	0 to 130°F (-18 to +55°C)
	One time 350°F (177°C) for 1/2 hour (per UL555S)
Storage and Transport	-25 to +158°F (-32 to +70°C)
Humidity	Maximum 95% RH, non-condensing
Agency Certifications	UL listed to UL873
	C-UL certified to Canadian standard C22.2 No. 24-93
	Australian EMC Framework (C-tick) with the limits per AS/NZS 2064 1/2:1997
Pre-cabled Connection	AWG 18
Dimensions	12" H x 4.76" W x 2.88" D (305 mm H x 120 mm W x 72 mm D)
Shipping Weight	
Single Pack	7.0 lbs. (3.2 kg)
Bulk Pack	56 lbs. (25.4 kg)

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GGD Series Product Ordering

Description	Shaft Adapter	Part No.		
		24 Vac	115 Vac	230 Vac
Standard	Self-centering	GGD121.1U	GGD221.1U	GGD321.1U
Standard/Bulk	Self-centering	GGD121.1U/B	GGD221.1U/B	GGD321.1U/B
Auxiliary Switches 5° and 85°	Self-centering	GGD126.1U	GGD226.1U	GGD326.1U
Standard	Oversized	GGD121.3U	GGD221.3U	GGD321.3U

Ordering Note Bulk packages contain 8 actuators.

Accessories & Service Kits

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Damper Actuators

GGD Series Dimensions

GGD Series OpenAir Damper Actuator

