

Electronic Damper Actuator

Designed for UL Listed Fire/Smoke and Smoke Control Dampers



53 lb.-in. Torque
 2-position, 15-second Run Time
 15-second Spring Return Time



GND Series Electronic Damper Actuator.

Description

Intended for use on UL listed smoke control dampers and combination fire/smoke rated dampers, the OpenAir GND Series Direct Coupled, Fast-Acting, Two-position, Spring Electronic Actuators are available in 24 Vac/dc, 120 Vac, and 230 Vac models.

Features

- Manual override
- 24 Vac/dc, 120 Vac and 230 Vac models available
- Reversible fail-safe spring return
- All metal housing
- Pre-cabled Teflon® insulated lead wires
- Fifteen-second operation at rated torque, temperature and voltage
- Assembled in the U.S.A.

Options

- Optional built-in auxiliary switches: Fixed switch points at 5° and 85° rotation
- Optional built-in Electronic Fusible Link (EFL) capability with four temperature ratings: 165°F (74°C), 212°F (100°C), 250°F (121°C), 350°F (177°C)

Applications

The GND Series Spring Return Electronic Actuator is used for the control of dampers requiring up to 53 lb-in (6 Nm) driving torque. It is intended for control of UL listed smoke control dampers and combination fire/smoke HVAC dampers. This actuator is designed to meet the 2002 revisions to the UL 555/555S and the AMCA Standard 520 specifications.

GND Series Specifications

Operating Voltage	24 Vac ±20%
	24 Vdc +20%, -10%
	120 Vac ±10%
	230 Vac ±10%
Frequency	50/60 Hz
Power Consumption	24 Vac/dc
Running	20 VA/12W
Holding	8 VA/6W
Power Consumption	120 Vac/230 Vac
Running and Holding	20 VA/9VA
Torque	
Running Torque	53 lb.-in. (6 Nm) (minimum)
Stall Torque (minimum)	160 lb.-in. (18 Nm)
Runtime for 90°	15 sec. nominal
Closing (on power loss) with Spring Return	15 sec. Max.
Nominal Angle of Rotation	95°
Life Expectancy	Minimum 35,000 full stroke cycles
Mounting	
Damper Shaft Size	0.5" (12.7 mm) round
Damper Shaft Length, Minimum	1.4" (36 mm)
Housing	
Enclosure	NEMA 1
Material	Die-cast Aluminum Alloy

Temperature	
Operation	0 to 140°F (-18 to +60°C)
	One time 350°F (177°C)
Storage and Transport	-40 to +158°F (-40 to +70°C)
Humidity	Max. 95% RH, non-condensing
Teflon Cable	400°F (200°C)
Agency Certification	UL873
	cUL C22.2 No. 24-93
	AS/NZS 2064 1/2:1997
	Conforms to CE requirements for the
	EMC and low voltage directives
	Australian Electromagnetic
	Compatibility (EMC) per AS/NZS
	4251.1/2:1999 (C-tick)
Pre-cabled Connection	18 AWG, 3 ft. (0.9 m)
	3/8" (0.5mm) flexible conduit connector
Dimensions	9" H X 3.25" W X 3" D
	(229 mm H X 83 mm W X 76 mm D)
Shipping Weight	4 lb. (1.8 kg)

*Refer to the Installation Instructions for acceptable mounting positions.

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Damper Actuators

GND Series Product Ordering

Description	Cabling	Part No.		
		24 Vac/dc	120 Vac	230 Vac
2-position	Standard	GND121.1U	GND221.1U	GND321.1U
	EFL	GND121.1U/F	GND221.1U/F	GND321.1U/F
2-position with aux. switches	Standard	GND126.1U	GND226.1U	GND326.1U
	EFL	GND126.1U/F	GND226.1U/F	GND326.1U/F

Ordering Note

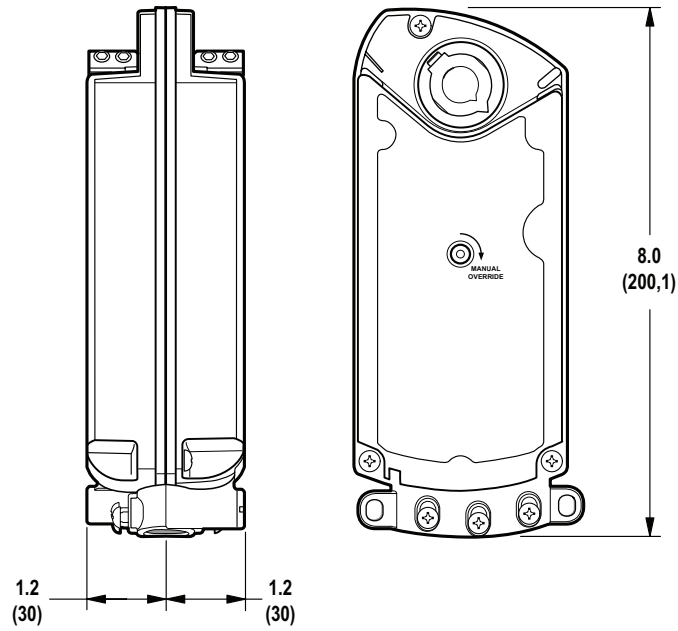
- EFL Electronic Fusible Links must be ordered separately (see table below).
- All products are available in bulk packages of 10. Add /B to part number to order a bulk pack.

Electronic Fusible Links

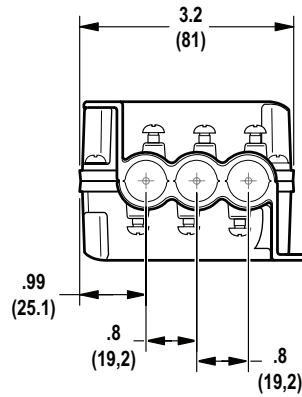
Temperature Range	Part No.
165°F (74°C)	ASK79.165
212°F (100°C)	ASK79.212
250°F (121°C)	ASK79.250
350°F (177°C)	ASK79.350

GND Series Dimensions

GND Series OpenAir Damper Actuator



EA1148R1



Dimensions shown in inches (mm).