

Electronic Damper Actuator

Designed for UL Listed Fire/Smoke and Smoke Control Dampers

80 lb-in Torque

2 position, 30 second run time
15 second Spring Return Time



GKD Series Electronic Damper Actuator

Description

The OpenAir direct coupled, fast-acting, two-position, spring return electronic actuators are available as 24 Vac/dc, 120 Vac, and 230 Vac models. They are intended for use on UL-listed smoke control and combination fire/smoke rated dampers.

Features

- Electronic Fusible Link (EFL) capability with three temperature ratings: 165° F (74° C), 252° F (100° C), 250° F (121° C), and 350°F (177°C)
- Reversible fail-safe spring return
- High temperature polymer housing
- Pre-cabled lead wires
- 30-second drive/15 second return operation at rated torque, temperature and voltage
- 5 Year warranty
- Made in the USA
- Compact design for tight-fitting spaces

Options

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

Applications

The GKD Series Spring Return Fire and Smoke Damper Actuator is used for the control of dampers requiring up to 80 lb-in 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 UL555/555S and the AMCA Standard 520 applications.

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Damper Actuators

Specifications

Operating Voltage	24Vac ±20%
	120 Vac ±10%
	230 Vac ±10%
Frequency	
24Vac/dc.....	50/60 Hz
120 Vac & 230 Vac.....	60 Hz
Power Consumption	24Vac/dc
Running.....	~ 26 VA
Holding.....	~ 8 VA
Power Consumption	120Vac
Running.....	26 VA
Holding.....	8 VA
Power Consumption	230 Vac
Running.....	~ 26 VA
Holding.....	~ 8 VA
Torque	
Running.....	80 lb-in (2 Nm) (minimum)
Minimum Stall.....	130 lb-in (14.6 Nm)
Runtime for 90°	
Operating with motor at 60hz.....	30 seconds nominal
Closing (on power loss) with spring return.....	15 seconds nominal
Nominal Angle of Rotation	95°

Life Expectancy	Minimum 20,000 full stroke cycles
Damper Shaft Size	0.5-inch (12.7 mm) to 1-inch (25 mm)round
Min. Shaft Length	3.0-inch (76.2 mm)
Housing	
Enclosure.....	NEMA 1/ IP40
Material.....	Plenum-Rated Plastic
Temperature	
Operation.....	0°F to 130°F (-18°C to 55° C)
	One time 350°F (121°C) 1/2 hour per UL555S
Storage and Transport.....	- 40°F to 158°F (-40°C to 70°C)
Humidity	Maximum 95% rh non-condensing
Teflon Cable	400°F (200°C)
Agency Certifications	UL60730
	cUL CSA 60730
	CE Conformity for Residential, Commercial and Industrial Environments
	Australian RCM Conformity
Pre-cabled Connection	19/30 strand 18 GA, 3 ft (0.9m)
Dimensions	10.7-in H x 3.4-in W x 3.8-in D
	(272.8 mm H x 101.5 mm W x 96.4 mm D)
Shipping Weight	
Single Pack	~ 9.0 lbs (4.1kg)

Product Ordering

Description	Part No.		
	24Vac	120Vac	230Vac
Standard	GKD121.1U	GKD221.1U	GKD321.1U
Aux Switches 5° and 85°	GKD126.1U	GKD226.1U	GKD326.1U

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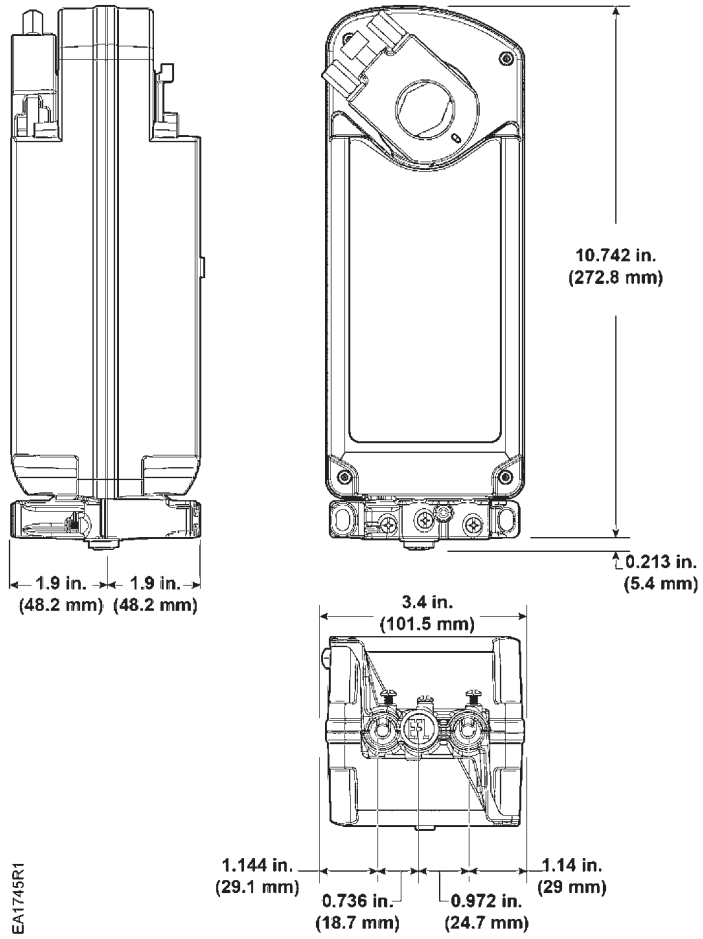
Compatible Electronic Fusible Links

Temperature Range	Part No.
165°F (74°C)	ASK791.165
212°F (100°C)	ASK791.212
250°F (121°C)	ASK791.250
350°F (177°C)	ASK791.350

* Determine and order appropriate actuator before selecting an EFL



GKD Series OpenAir Damper Actuators



Dimensions shown in inches (mm).