OpenAir™ GRD Series

Electronic Damper Actuator

Designed for UI Listed Fire/Smoke and Smoke Control Dampers

30 lb-in Torque

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





GRD Series Electronic Damper Actuator

Description

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

Features

- Electronic Fusilbe 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 GRD Series Spring Return Fie and Smoke Damper Actuator is used for the control of dampers requiring up to 30 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.





Specifications

Operating Voltage	24 Vac ±20% 24 Vdc +20%, -10% 120 Vac ±10% 230 Vac ±10%
Frequency 24Vac/dc & 120 Vac230 Vac	
Power Consumption Running Holding Power Consumption Running Holding Power Consumption Running Holding Holding	~ 14 VA/ 8W ~ 4 VA/ 2W — 120 Vac — 12 VA — 4 VA — 230 Vac — 12 VA
Torque Running30 lb-ii Minimum Stall	, , , ,
Runtime for 90° Operating with smotor at 60hz Closing (on power loss) with spring return	
Nominal Angle of Rotation	95°

Life ExpectancyMinimum 20,000 full stroke cycles
Damper Shaft Size
Min. Shaft Length
Housing EnclosureNEMA 1/ IP40 MaterialHigh temperature polymer
Temperature
Operation
Storage and Transport 40°F to 158°F (-40°C to 70°C Humidity
Agency CertificationsUL60730
CUL CSA 60730 CE Confromity for Residential, Commercial and Industrial Environments Australian RCM Conformity
Pre-cabled Connection
Dimensions
Shipping Weight Single Pack ~ 4.0 lbs (1.8 kg)

Product Ordering

	Part No.		
Description	24Vac	120Vac	230Vac
Standard	GRD121.1U	GRD221.1U	GRD321.1U
Aux Switches 5° and 85°	GRD126.1U	GRD226.1U	GRD326.1U

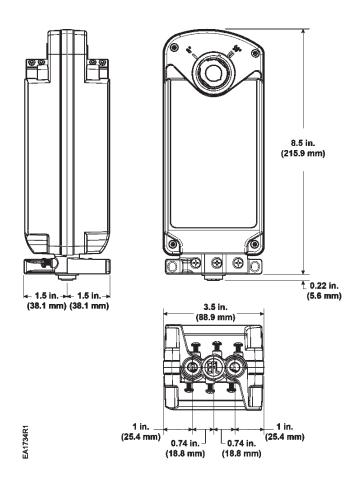
Compatible Electronic Fusible Links

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



GRD Series OpenAir Damper Actuators



Dimensions shown in inches (mm).