SIEMENS

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OpenAir® GVD/GKD Series Electronic Damper Actuators for UL Listed Fire/Smoke and Smoke Control Dampers

2-Position, 30-second Run Time, 15-second Spring Return Time

Product Number	Operating Voltage			9		ary
	24 Vac ± 20%	120 Vac ± 10%	230 Vac ± 10%	3-ft Plenum Cable	EFL Capability	Two Fixed Auxiliary Switches
GxD121.1U	•			•	•	
GxD126.1U	•			•	•	•
GxD221.1U		•		•	•	
GxD226.1U		•		•	•	•
GxD321.1U			•	•	•	
GxD326.1U			•	•	•	•

Technical Data

Running Torque: 80 lb-in GKD (9 Nm) (minimum) 200 lb-in GVD (23 Nm) (minimum)

Stall Torque: 130 lb-in GKD (14.6 Nm) (minimum) 280 lb-in GVD (32 Nm) (minimum

Run time for 90°: 30 seconds (nominal)
Spring Return: 15 seconds (maximum)

Nominal angle of rotation: 95°

Operating voltage: 24 Vac ±20%

120 Vac ±10%/ 230 Vac ±10%

CAUTION:

Continuous use at voltages above the recommended tolerances may damage the

actuator.

Weight:

 Power Consumption:
 GKD (80 lb/in) Run/Hold
 GVD (200 lb-in) Run/Hold

 GxD12x.1U
 26 VA/8 VA
 35 VA/9 VA

 GxD22x.1U
 26 VA/8 VA
 35 VA/9 VA

 GxD32x.1U
 26 VA/8 VA
 35 VA/9 VA

Damper shaft size: 1/2-inch (12,7 mm) to 1" (25 mm) round

Damper shaft length, minimum: 3-inch (76.2 mm)

Agency listings:

UL60730, cUL CSA 60730
CE conformity for Residential,
Commercial, and Industrial

environments.

Australian RCM conformity

Ambient temperature, operating: 0°F to 140°F (–18°C to 60°C),

350°F (177°C) one time per UL555S

Ambient temperature, storage/transport: -40°F to 158°F (-40°C to 70°C)

Ambient humidity (non-condensing): Maximum 95% rh non-condensing

Plenum-rated cable: 400°F (200°C)
Enclosure: NEMA 1/IP40
Housing material: Plenum-rated plastic

Pre-cabled connection: 3 ft (0.9m)

19/30 strand 18 GA

Dimensions 10.7" H x 3.4" W x 3.8" D (272.8 mm H x101.5 mm Wx96.4 mm D)

~4 lbs. (1.8 kg)

Country of Origin USA

Description

The OpenAir direct-coupled, 2-position, spring return electronic damper actuators are UL listed for smoke control dampers or for combination fire/smoke rated dampers. Actuators are designed to operate reliably in smoke control systems requiring Underwriter's Laboratories, Inc. UL555/555S rating when tested as an assembly with the damper and will meet requirements of UBC for 30-second opening and 15-second closing at 350°F (177°C).



Features

- Optional built-in auxiliary switches with fixed switch points at 5° and 85° rotation.
- Built-in Electronic Fusible Link (EFL) capability with four temperature ratings; 165°F, 212°F, 250°F, and 350°F
- Reversible, fail-safe spring return
- Plenum-rated
- Pre-cabled
- 30-second operation at rated torque, temperature, and voltage
- Fixed Dual End Switches
 24 Vdc, 24 Vac to 250 Vac
 6A resistive
 2FLA/12 LRA
 SPST

Fixed 5° and 85°

Accessories

Electronic Fusible Link (24 Vac)

	, ,
ASK791.165	165°F (74°C)
ASK791.212	212°F (100°F)
ASK791.250	250°F (121°C)
ASK791.350	350°F (177°C)

Maintenance



CAUTION:

The GVD/GKD actuators do not require any periodic cycling to function properly as an integral part of an active smoke control damper system. The National Fire Alarm Code NFPA 72 states that all life safety systems are to be functionally checked at least annually. Check the smoke control damper/actuator every time you functionally check your smoke detectors, emergency lights, and/or power generators for operation.

Wiring Diagrams

NOTE: Actuators may be connected in parallel. Power consumption must be observed.

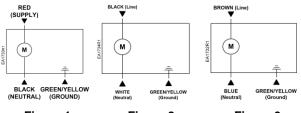
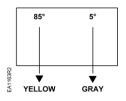


Figure 1. 24 Vac.

Figure 2 120 Vac.

Figure 3. 230 Vac.



NOTE:

Both sets of contacts are open when the actuator is between 5° and 85°

Switch	Wire Color	Switch Makes	Switch Breaks
5°	Gray	< 5°	> 5°
85°	Yellow	> 85°	< 85°

Electronic Fusible Link

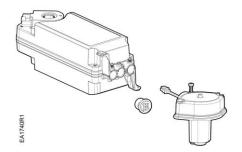


Figure 4. GVD/GKD Actuator and EFL.

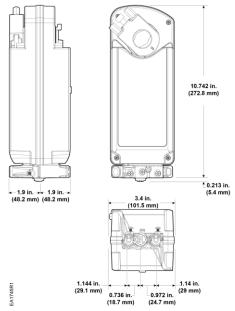


Figure 5. GVD/GKD Series Damper Actuator and Mounting Bracket Dimensions in Inches (Millimeters).

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