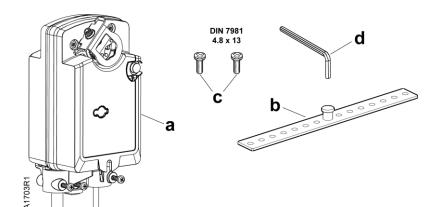
## **SIEMENS**

# OpenAir® GJD Series Electronic Damper Actuator Designed for UL Listed Fire/Smoke and Smoke Control Dampers



- a. Actuator
- b. Anti-rotation bracket
- c. Mounting screws (2)
- d. Hex key 3 mm

Figure 1. GJD Actuator Parts.

## **Product Description**

Step-by-step description for direct-coupled mounting of the OpenAir GJD fast-acting, spring return, two-position rotary electronic damper actuator. Actuator is intended for control of approved fire and smoke leakage-rated HVAC dampers.

### **Product Numbers**

GJD121.1U

GJD126.1U

GJD221.1U

GJD226.1U

GJD321.1U

GJD326.1U

## **Warning/Caution Notations**

WARNING:	A	Personal injury or loss of life may occur if you do not follow a procedure as specified.
CAUTION:	A	Equipment damage or loss of data may occur if you do not follow a procedure as specified.

## **Required Tools**

- 3 mm hex wrench (provided)
- No. 2 Phillips screwdriver
- Marker or pencil
- Small, needle-nose pliers (for EFL installation)

## **Prerequisites**



#### WARNING:

Do not open the actuator housing.

#### **CAUTION:**

Continuous use at voltages above the recommended tolerances may damage the actuator.

#### Installation

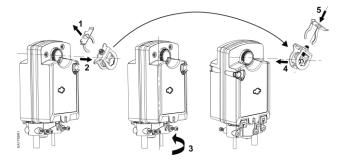


Figure 2. Actuator Mounting Orientation.

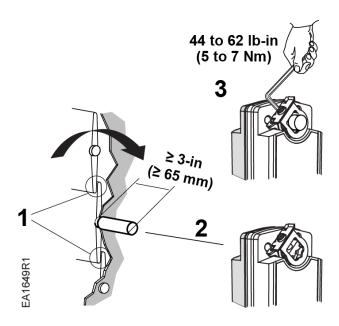


Figure 3. Shaft Length and Proper Shaft Adapter Location.

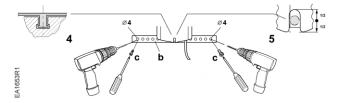


Figure 4. Anti-Rotation Bracket.

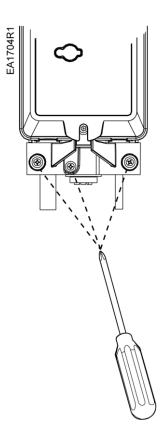


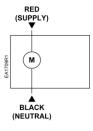
Figure 5. If using flexible conduit, insert the conduit into the proper opening and then tighten the conduit screws using a No. 2 Phillips Screwdriver.

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## **Wiring Diagrams**

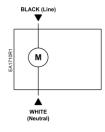
**NOTE:** All wiring must conform to NEC and local codes and regulations.

24 Vac/dc



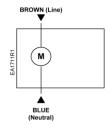
Function	Color
Supply	Red
Neutral	Black

120 Vac



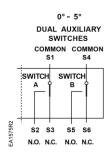
Function	Color
Line	Black
Neutral	White

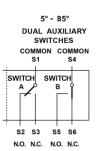
230 Vac

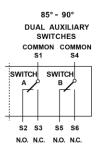


Function	Color
Line	Brown
Neutral	Blue

## **Auxiliary Switches**







Actuator Position	Switch A Common S1 Connected to	Switch B Common S4 Connected to
0° to 5°	S3	S6
5° to 85°	S2	S6
85° to 90°	S2	S5



### **CAUTION:**

Mixed switch operation to the switching outputs of both dual end switches (5° and 85°) is not permitted.

Either AC line voltage from the same phase must be applied to all six outputs of the fixed dual end switches, or UL-Class 2 voltage must be applied to all six outputs.

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## Wiring, Continued

## **Electronic Fusible Link (EFL)**

All GJD Electronic Damper Actuators are EFL-capable. EFLs are purchased separately. See Table 1.

Table 1. Electronic Fusible Link Product Numbers.

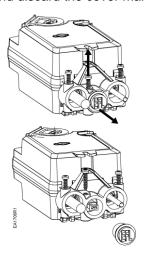
Part Number	Operation	
ASK791.165	165°F (74°C)	
ASK791.212	212°F (100°C)	
ASK791.250	250°F (121°C)	

#### NOTE:

All EFLs are low voltage and do not need to be wired in conduit.

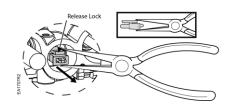
To install an EFL, do the following:

1. Remove and discard the cover marked EFL.

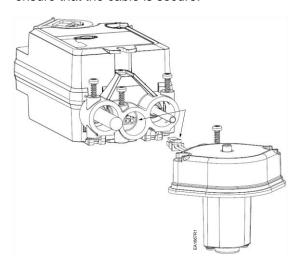


2. Use a small, needle-nose pliers to squeeze the release lock of the jumper plug and remove the jumper plug.

**NOTE:** Remove the entire jumper plug, including the wire loop.



3. Insert the quick connect plug from the EFL and ensure that the cable is secure.



#### NOTE:

If you are not using an EFL, do not modify the actuator. An EFL or jumper plug must be installed for actuator to work properly.

## **Maintenance**



## **CAUTION:**

The GJD actuator does 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.

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### **Dimensions**

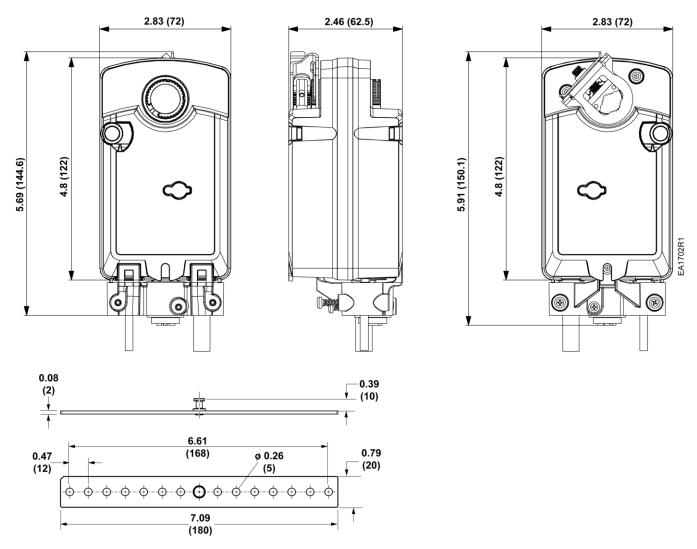


Figure 6. Dimensions of GJD OpenAir Actuator in Inches (mm).

## References

Technical Instructions OpenAir Electric Damper Actuator Designed for UL Listed Fire/Smoke and Smoke Control Dampers A6V11275901

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