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

Product Description

Product Numbers
GJD121.1U
GJD126.1U
GJD221.1U
GJD226.1U
GJD321.1U
GJD326.1U

Warning/Caution Notations

| WARNING: | Personal injury or loss of life may occur if you do not follow a procedure as specified. |
| CAUTION: | 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 1. GJD Actuator Parts.

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.
Wiring Diagrams

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

### 24 Vac/dc

![Diagram](image1)

<table>
<thead>
<tr>
<th>Function</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
<td>Red</td>
</tr>
<tr>
<td>Neutral</td>
<td>Black</td>
</tr>
</tbody>
</table>

### 120 Vac

![Diagram](image2)

<table>
<thead>
<tr>
<th>Function</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line</td>
<td>Black</td>
</tr>
<tr>
<td>Neutral</td>
<td>White</td>
</tr>
</tbody>
</table>

### 230 Vac

![Diagram](image3)

<table>
<thead>
<tr>
<th>Function</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line</td>
<td>Brown</td>
</tr>
<tr>
<td>Neutral</td>
<td>Blue</td>
</tr>
</tbody>
</table>

**Auxiliary Switches**

<table>
<thead>
<tr>
<th>Actuator Position</th>
<th>Switch A Common S1 Connected to</th>
<th>Switch B Common S4 Connected to</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° to 5°</td>
<td>S3</td>
<td>S6</td>
</tr>
<tr>
<td>5° to 85°</td>
<td>S2</td>
<td>S6</td>
</tr>
<tr>
<td>85° to 90°</td>
<td>S2</td>
<td>S5</td>
</tr>
</tbody>
</table>

**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.
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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASK791.165</td>
<td>165°F (74°C)</td>
</tr>
<tr>
<td>ASK791.212</td>
<td>212°F (100°C)</td>
</tr>
<tr>
<td>ASK791.250</td>
<td>250°F (121°C)</td>
</tr>
</tbody>
</table>

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 plug marked EFL.
2. Using a small, needle-nose pliers or flat-blade screwdriver, remove the jumper.
3. Insert the quick connect from the EFL.

NOTE:
If you are not using an EFL, do not modify the actuator.

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.
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

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