OpenAir™ GND Series Electronic Damper Actuators for UL Listed Fire/Smoke and Smoke Control Dampers
2-Position, 15-second Run Time, 15-second Spring Return Time

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Operating Voltage</th>
<th>Pack</th>
<th>Options</th>
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</thead>
<tbody>
<tr>
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<td>24 Vac ± 20%, 24 Vdc ± 20%, 120 Vac ± 10%, 230 Vac ± 10%</td>
<td>Single pack</td>
<td>Two Auxiliary Switches Fixed 5° and 85° Electric Fuse Link Connection</td>
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<td>GND12x.1x</td>
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<td>GND22x.1x</td>
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<td>GND32x.1x</td>
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Technical Data

Torque: 53 lb-in (6 Nm) (minimum)
Stall Torque: 160 lb-in (18 Nm) (Minimum)
Run time for 90°: 15 seconds (nominal)
Spring Return: 15 seconds (nominal)
Nominal angle of rotation: 95° nominal
Operating voltage: 24 Vac ±20%/ 24Vdc+20%-10%
Power Consumption:
  Running: 20VA/12W
  Holding: 8VA/6W
Operating Voltage:
  Running: 120 Vac ±10%/ 230 Vac ±10%
Power Consumption:
  Running: 20 VA
  Holding: 9 VA
Damper shaft size: 1/2-inch (13 mm) round
Damper shaft length, minimum: 1.4-inch (36 mm) min. length
Agency listings:
UL873
cUL C22.2 No. 24-93
AS/NZS 2064 1/2:1997
CE conformity
Australian Electromagnetic Compatibility (EMC) per AS/NZS 4251.1/2:1999 (C-tick)

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 15 second opening and closing at 350°F (177°C).

Features

- Optional built-in auxiliary switches: Fixed switch points at 5° and 85° rotation.
- Optional built-in Electronic Fusible Link (EFL) capability with three temperature ratings; 165°F, 250°F, 350°F
- Reversible fail-safe spring return
- All metal housing
- Precabled Teflon® insulated lead wires
- Fifteen 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°

Electronic Fuse Link (24 Vac)

- ASK79.165 165°F (74°C)
- ASK79.212 212°F (100°F)
- ASK79.250 250°F (121°C)
- ASK79.350 350°F (177°C)
Maintenance
The National Fire Protection Association NFPA 92A Standard for Recommended Practice for Smoke-Control System and UL 864 Standard for Control Units and Accessories for Fire Alarm Systems, require weekly self-test for dedicated smoke control equipment used in a smoke control system. The National Fire Protection Association NFPA 72 Standard for National Fire Alarm Codes states that all life safety systems are to be functionally checked at least annually. The GND actuator is designed such that no special cycling during long-term holding is required. The GND actuator complies with the AMCA Standard 520 testing revision.

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

CAUTION: The actuator must be wired with a 230 Vac line with respect to neutral. The ground lead must be connected for proper protection of the actuator. Any other connection, such as phase-to-phase, can damage the actuator.

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