

Spring Return Commercial Actuators - DCS-62 Series



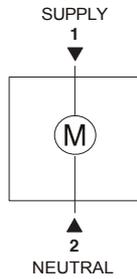
| Technical Specifications - DCS-62 Series Actuator | | | | |
|---|--|--|--|--|
| Type | Actuator Models | DCS24-62-P DCS24-62-A DCS24-62-AP | DCMS24-62-P DCMS24-62-A | DCS120-62 DCS120-62-A |
| | Torque | Spring Return On/Off Plenum Cable (-P) Auxillary Switches (-A) | Spring Return Modulating Plenum Cable (-P) Auxillary Switches (-A) | Spring Return On/Off Standard Cable Only Auxillary Switches (-A) |
| Electrical | Operating Voltage | 24 VAC ±20% 24 VDC ±15% at 50/60 Hz | | 120 VAC ±10% at 50/60 Hz |
| | Power Consumption | VAC - 5 VA Running, 3.5 VA Holding | | ≤7 VA/5W |
| | | VDC - 4 W Running, 3 W Holding | | |
| | Input Signal | N/A | 0 to 10 VDC (max. 35 VDC) | |
| | Control Input Impedance | N/A | >100k Ohms | |
| | Feedback Signal | N/A | Voltage output signal 0 to 10 VDC; Maximum output current +1 mA, -0.5 mA | |
| | Auxillary Switch Rating (-A Models Only) | (-A) Models Only Control signal adjustment - Offset (start point) Between 0 to 5 VDC; Span Between 2 to 30 VDC AC Rating (standard cable) 24 to 250 VAC, AC 6A resistive, AC 2A general purpose DC Rating (Standard/Plenum cable) 12 to 30 VDC, DC 2A | | |
| | Switch Range (-A Models Only) | (-A) Models Only Switch A - 0° to 90° with 5° intervals; Recommended range usage 0° to 45°; Factory setting 5° Switch B - 0° to 90° with 5° intervals; Recommended range usage 45° to 90°; Factory setting 85° | | |
| | Switching Hysteresis (-A Models Only) | (-A) Models Only 2° | | |
| | Equipment Rating | Class 2, in accordance with UL/CSA, Class III per EN 60730 | | N/A |
| | Electrical Connection | (-P or -AP) Models Only - 36 in. (.9 m) Plenum Cable with 18 AWG (0.75 mm ²) Wire Leads (-A) Models Only - 36 in. (.9 m) Standard Cable with 18 AWG (0.75 mm ²) Wire Leads | | |
| | Conduit Connections | Integral Connectors for 1/2 in. NPT | | |
| | Operation | Manual Override | 3mm Hex Wrench | |
| Spring Return | | Direction is Selectable with Mounting Position of Actuator | | |
| Rotation Range | | Nominal angle of rotation 90°; Maximum angular rotation 95° | | |
| Runtime for 90° of Rotation | | Power On (Running) 90 Seconds for 62 lb-in (7 Nm) at (60 seconds max. at -25°F (-32°C)) Power Off (Returning) 15 Seconds Typical for 62 lb-in (7 Nm) at (60 seconds max. at -25°F (-32°C)) | | |
| Cycle Life | | 60,000 Full stroke cycles (1,500,000 repositions) | | |
| Mechanical Connections | | Round Shafts - 1/4 to 3/4-inch (6.4 to 20.5 mm) Square Shafts - 1/4 to 1/2-inch (6.4 to 13 mm) | | |
| Environmental | Enclosure | NEMA 1 (IP54) limited mounting orientations | | |
| | Ambient Conditions (Non-Condensing) | Operating — -25°F to 130°F (-32°C to 55°C); 95% RH Maximum, Noncondensing Storage — -40°F to 158°F (-40°C to 70°C); 95% RH Maximum, Noncondensing | | |
| | Audible Noise Rating | 40 dBA | | |
| | Dimensions | 8-3/8" (L) x 3-1/4" (W) x 2-2/3" (H) | | |
| Conditions | Weight | 2.9 lb (1.3 kg) | | |
| | Agency Certifications | UL listed to UL60730 (to replace UL873) cUL certified to Canadian Standard C22.2 No. 24-93 Low voltage directive (LVD) 2006/95/EC - EN 60 730-2-14 (Type 1) | | UL listed to UL60730 (to replace UL873) cUL certified to Canadian Standard C22.2 No. 24-93 |
| | Warranty | 5 Years limited from time of shipment. | | |

Spring Return Commercial Actuators - DCS-62 Series Wiring



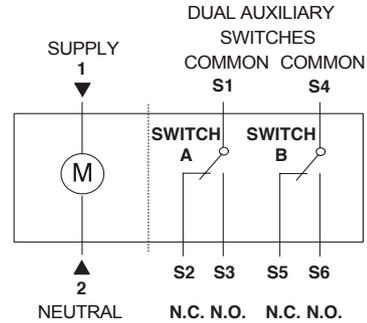
DCS24-62-(P)
CABLE

On/Off



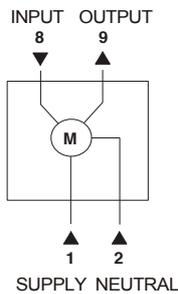
DCS24-62-(A), (AP)
CABLE

On/Off with AUX Switches



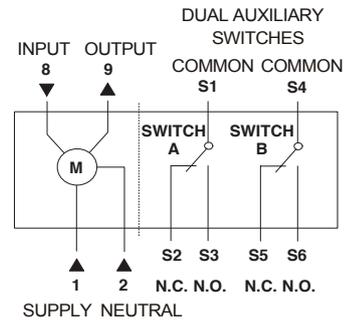
DCMS24-62-(P)
CABLE

Modulating



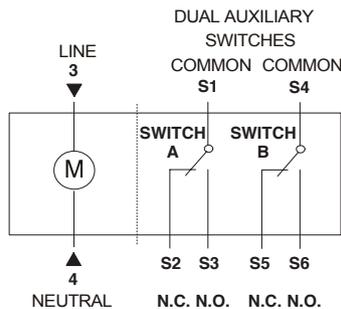
DCMS24-62-(A)
CABLE

Modulating with AUX Switches



DCS120-62-(A)
CABLE

120 V On/Off with AUX Switches



Warning - These actuators are designed for use only in conjunction with operating controls. Where an operating control failure would result in personal injury and/or loss of property, it is the responsibility of the installer to add safety devices or alarm systems that protect against, and/or warn of, control failure.

To avoid excessive wear or drive time on the motor, use a controller and/or software that provides a time-out function to remove the signal at the end of rotation (stall).

Disclaimer - The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the nearest Bray office. Bray controls shall not be liable for damages resulting from misapplication or misuse of its products.