

## DC(M)S-62 Series — Submittal/Technical Data

62 lb-in. — Spring Return — On/Off & Modulating — Auxiliary Switches

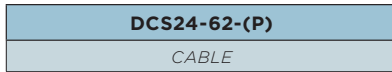
Technical Specifications - DC(M)S-62 Series Actuator			
Type	Actuator Models	DCS24-62-P DCS24-62-A DCS24-62-AP	DCMS24-62-P DCMS24-62-A
		Spring Return On/Off Plenum Cable (-P) Auxiliary Switches (-A)	Spring Return Modulating Plenum Cable (-P) Auxiliary Switches (-A)
Torque		62 lb-in. (7 Nm)	
Electrical	Operating Voltage	24 VAC ±20% 24 VDC ±15% at 50/60 Hz	
	Power Consumption	VAC - 5 VA Running, 3.5 VA Holding VDC - 4 W Running, 3 W Holding	120 VAC ±10% at 50/60 Hz ≤7 VA/5W
	Control 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
	Auxiliary 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 <sup>2</sup> ) Wire Leads (-A) Models Only - 36 in. (.9 m) Standard Cable with 18 AWG (0.75 mm <sup>2</sup> ) Wire Leads	
Operation	Conduit Connections	Integral Connectors for 1/2 in. NPT	
	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)	
Environmental	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)	
	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.	

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.

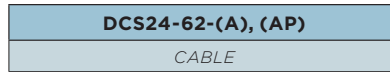
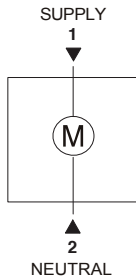
To avoid excessive wear or drive time on the motor, use a controller and/or software that provides a time-out function to remove the signal at the end of rotation (stall).

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.

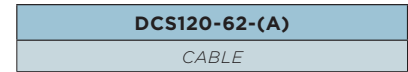
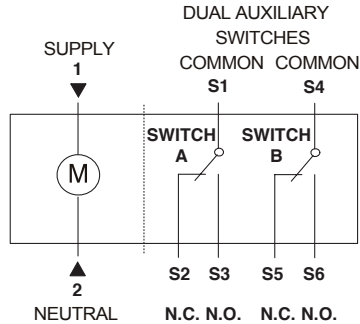
## Wiring



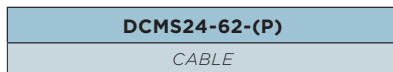
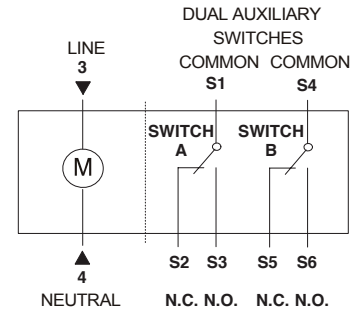
On/Off



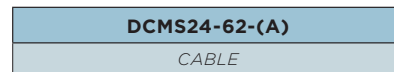
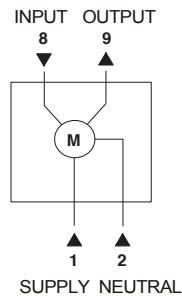
On/Off with AUX Switches



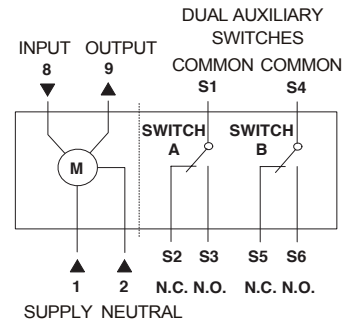
120 V On/Off with AUX Switches



Modulating



Modulating with AUX Switches



## Dimensions

