Non-Spring Return Commercial Actuators - DC-310 Series





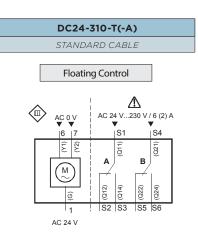
		DC24-310-T(-A)	DCM24-310-T(-A)			
	Actuator Models	Non-Spring Return - Floating, Time Out Features with optional Auxillary Switches (-A) Non-Spring Return - Modulat with optional Auxillary Switches				
	Torque	310 lb-in. (35 Nm)				
	Operating Voltage	24 VAC ±20% at 50/60 Hz				
	Power Consumption	7 VA, 7W	8 VA, 8W			
	Control Signal	N/A	0 to 10 VDC			
	Control Impedance	N/A	100k Ohm			
	Input Signal	N/A	Y (wires 8-2) DC 010 V (Max. permissible input voltage DC 35 V)			
	Feedback Potentiometer	0 to 1,000 Ohms, <10 mA	N/A			
	Positioning Signal	N/A	DC 035 V at Offset Uo = 05 V and Span Δ U = 230			
	Feedback Signal	N/A	DC 0 (2) to 10 V			
	Dual Auxiliary Switch	Standard Cable - AC, 6 A Resistive, AC 2 A General Purpose				
	Voltage	Standard Cable - 24 to 250 VAC				
	Switch Range	Switch A - 0 to 90° with 5° Intervals (Recommended Range Usage 0 to 45°) Factory Setting 5°				
	owneen Range	Switch B - 0 to 90° with 5° Intervals (Recommended Range Usage 45 to 90°) Factory Setting 85°				
	Time Out	Auto shutoff feature to prevent excessive wear or drive time on the motor	N/A			
	Electrical Connection	3 ft. (0.9 m) Pre-cabled - AWG 18				
	Equipment Rating	Class 2 According to UL, CSA - Class III per EN60730				
	Manual Override	External Push Button				
	Runtime for 90° of Rotation	90 seconds, constant for all operating conditions				
obcidio	Rotation Timing	150 sec. at 50 Hz (125 sec. at 60Hz				
	Rotation Range	Nominal Angle of Rotation 90°, mechanically limited to 95° ± 2°				
	Cycle Life	Designed for 60,000 full stroke cycles				
	Mechanical Connections	Round Shafts - 3/8 to 1 in. (9.5 to 25.4 mm) diameter Square Shafts - 1/4 to 5/8 in. (6 to 18 mm) Minimum Shaft Length - 3/4 (20 mm)				
	Enclosure	IP54 as per EN 60 529				
	Ambient Conditions (Non-Condensing)	Operating — -25 to 130°F (-32 to 55°C); 0 to 95% RH, non-condensing Storage — -40 to 158°F (-40 to 70°C); 0 to 95% RH, non-condensing				
5	Audible Noise Rating	<45 dBA at 1 m				
	Dimensions	(L) 11.8 x (W) 3.9 x (H) 2.9 in. (300 x 100 x 67.5 mm)				
	Weight	4.4 lb (2 kg)				
2	Agency Certifications	UL listed to UL873-cUL certified to Canadian Standard C22.2 No. 24-93 CE conformity: Electromagnetic compatibility 2004/108/EC-Low-voltage directive 2006/95/EC				
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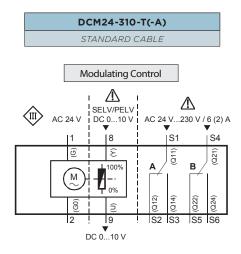


Non-Spring Return Commercial Actuators - DC-310 Series Wiring



KEY						
	с	able	Function			
No.	Code	Color				
1	G	Red (RD)	AC 24 V Supply (SP)			
2	GO	Black (BK)	Neutral (SN)			
6	Y1	Violet (VT)	Contro	ol Signal Clockwise AC 0 V		
7	Y2	Orange (OG)	Control Signal AC 0 V Counterclockwise			
8	Y	Gray (GY)	Control signal DC 010 V, 035 V			
9	U	Pink (PK)	Position indication DC 010 V			
Auxillary Switch - Factory Installed						
S1	Q11	Gray/Red (GY RD)		Switch A Input		
S2	Q12	Gray/Blue ((GY BU)	Switch A - N.C.		
S3	Q14	Gray/Pink (GY PK)		Switch A - N.O.		
S4	Q21	Black/Red	(BK RD)	Switch B Input		
S5	Q22	Black/Blue	(BK BU)	Switch B - N.C.		
S6	Q24	Black/Pink	(BK PK)	Switch B - N.O.		





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.

