Non-Spring Return Damper Actuators - DC(M)24-44-88 Series





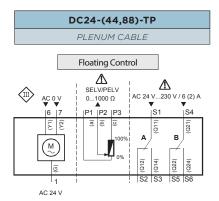
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Technical Specifications - DC24-(44,88) Series Actuator								
		DC24-(44,88)-TP	DC24-(44,88)-TAP	DCM24-(44,88)-P	DCM24-(44,88)-AP			
Type	Actuator Models	Non-Spring Return Floating - Plenum Cable	Non-Spring Return Floating - Plenum Cable - Auxillary Switches (-A)	Non-Spring Return Modulating - Plenum Cable	Non-Spring Return Modulating - Plenum Cable Auxillary Switches (-A)			
	Torque	(DC(M)24-44), 44 lb-in. (5 Nm) (DC(M)24-88), 88 lb-in. (10 Nm)						
	Operating Voltage	24 VAC +20%, -15% at 50/60 Hz						
	Power Consumption	2.3 V	A, 2W					
	Control Signal	0 to 10 VDC						
	Input Signal		iting 0 Hz or 24 VDC	N/A				
	Input Signal Adjustments	Factory Setting - 0 to 10 VDC, 0 to 20 mA, CW rotation with signal increase		N/A				
Electrical		Jumper Selectable - 0 (2) to 10 VDC, 0 (4) to 20 VDC, or 0 (4) to 20 mA. Action is jumper selectable Direct (CW) or Reverse (CCW) with signal increase.		N/A				
	Input Impedance	N/A		100k Ohms				
	Feedback Signal	N/A		0 to 10 VDC (Maximum Output Current DC 1mA)				
Elec	Auxillary Switch Rating	N/A	4A Resistive, 2A Inductive	N/A	4A Resistive, 2A Inductive			
	Switch Range (Switch A)	N/A	0 to 90° with 5° Intervals (Recommended Range Usage 0 to 45°) Factory Setting 5°	N/A	0 to 90° with 5° Intervals (Recommended Range Usage 0 to 45°) Factory Setting 5°			
	Switch Range (Switch B)	N/A	0 to 90° with 5° Intervals (Recommended Rang Usage 45 to 90°) Factory Setting 85°	N/A	0 to 90° with 5° Intervals (Recommended Rang Usage 45 to 90°) Factory Setting 85°			
	Switching Hysteresis	N/A	2°	N/A	2°			
	Equipment Rating	24 VAC - Class 2 per UL/CSA						
	Electrical Connection	3 ft. (0.9 m) Pre-cabled - AWG 18 - Plenum Rated Cable						
	Manual Override	External Push Button						
Operation	Runtime for 90° of Rotation			t 60 Hz (108 sec. at 50Hz) t 60 Hz (150 sec. at 50Hz)				
	Rotation Range		Nominal Angle of Rotation 90	0°, mechanically limited to 95°				
	Cycle Life	60,000 cycles at rated load		50,000 cycles at rated load				
	Mechanical Connections	Round Shafts - 3/8 to 5/8 in. (8 to 16 mm) diameter Square Shafts - 1/4 to 1/2 in. (6 to 12.8 mm) Minimum Shaft Length - 1-5/32 (30 mm)						
_	Enclosure		NEMA 2, IP54 acco	ording to EN60529				
Enviromental	Ambient Conditions (Non-Condensing)			5°C); 0 to 95% RH, non-conde)°C); 0 to 95% RH, non-conder				
iror	Audible Noise Rating	35 dBA at 1 m						
Env	Dimensions	(L) 5.4 x (W) 2.8 x (H) 2.4 in. (137 x 68 x 60mm)						
	Weight	1.06 lb (.48 kg)						
Conditions	Agency Certifications	UL listed to UL873-cUL certified to Canadian Standard C22.2 No. 24-93, CE In accordance with the directive set forth by the European Union for Electromagnetic Compatibility (EMC) 2004/108/EC - Emissions Standards EN61000-6-3 - Immunity Standards EN61000-6-2						
ů	Warranty	5 Years limited from time of shipment.						

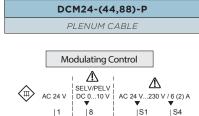


Non-Spring Return Damper Actuators - DC(M)24-44-88 Series Wiring



KEY									
	с	able	Function						
No.	Code	Color	Function						
1	G	Red (RD)	AC 24 V Supply (SP)						
2	GO	Black (BK)	Neutral (SN)						
6	Y1	Violet (VT)	Control 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.					





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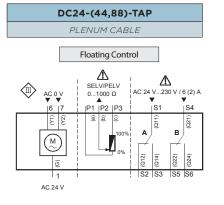
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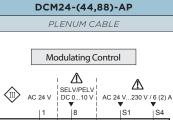
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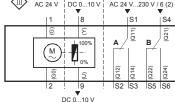
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DC 0...10 V







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).

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S5 S6

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.

Mixed switch operation is not permitted. To the switching outputs of both auxiliary switches (A and B), only apply: UL/CSA: Class 2 voltage. CE: Separated Extra-Low Voltage (SELV) or Protective Extra Low Voltage (PELV), according to HD384-4-41.

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