Bray Commercial Division
13788 West Road, Suite 200A
Houston, Texas 77041

BCDSales@Bray.com
Phone: 1-888-412-2729
www.braycommercialdivision.com
 11/12/24

D(M)24-35 Series — Submittal/Technical Data

Commercial Electric Actuators — 35 in-lbs (4Nm)

Technical Specifications - D(M)24-35 Series Actuator					
Type	Actuator Models	D24-35-TP	D24-35-T-TS	DM24-35	DM24-35-TS
		Non-Spring Return - Floating & On/Off (relay required)		Non-Spring Return - Modulating	
	Torque	35 lb-in. (4 Nm)			
Electrical	Operating Voltage	24 VAC +25%/-20% at 50/60 Hz			
	Power Consumption	2.1 VA		2.9 VA	
	Input Signal	24 VAC +25%/-20% at 50/60 Hz		0(2) to 10 VDC or 0(4) to 20 mA with field-furnished 500 ohm resistor	
	Input Impedance	N/A		200k Ohms	
	Equipment Rating	Class 2 or Safety Extra-Low Voltage (SELV)			
	Feedback Signal	N/A		0 to 10 VDC or 2 to 10 VDC for 90° (10 VDC at 1 mA), Corresponds to input signal span selection	
	Electrical Connection	36 in. (0.9 m) UL 444 Type CMP Plenum Rated cable with 19 AWG (0.75 mm2) conductors and 1/4 in. (6 mm) ferrule ends	Exposed Terminal Block - M3 Terminal Screws	36 in. (0.9 m) UL 444 Type CMP Plenum Rated cable with 19 AWG (0.75 mm2) conductors and 1/4 in. (6 mm) ferrule ends	Exposed Terminal Block - M3 Terminal Screws
Operation	Manual Override	External Push Button			
	Runtime for 90° of Rotation	60 Seconds at 60 Hz / 72 Seconds at 50 Hz for 90° rotation			
	Rotation Range	93° ±3°, CW or CCW			
	Cycle Life	100,000 Full Stroke Cycles; 2,500,000 repositions at rated running torque			
	Mechanical Connections	**Round Shafts** - Up to 1/2 in. (13 mm) **Square Shafts** - Up to 3/8 in. (10 mm)			
Environmental	Enclosure	NEMA 2 (IP42)	NEMA 2 (IP40)	NEMA 2 (IP42)	NEMA 2 (IP40)
	Ambient Conditions (Non-Condensing)	**Operating —** -4 to 140°F (-20 to 60°C); 90% RH Max. **Storage —** -20 to 150°F (-29 to 66°C); 90% RH Max.			
	Audible Noise Rating	35 dBA Nominal at 39-13/32 in. (1 meter)			
	Dimensions	5.16 x 2.81 x 2.06 in. (131 x 71 x 52 mm)			
	Weight	1.0 lb (0.5 kg)			
Conditions	Agency Certifications	**United States/Canada –** United States UL Listed, File E27734, CCN XAPX (United States) and XAPX7 (Canada) Actuator Housing is Plenum Rated per CSA C22.2 No. 236/UL 1995, Heating and Cooling Equipment			
		Europe – CE Mark - Product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC and the Low Voltage Directive 2006/95/EC			
		Australia/New Zealand – C-Tick Mark Australia/NZ Emissions Compliant			
	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.

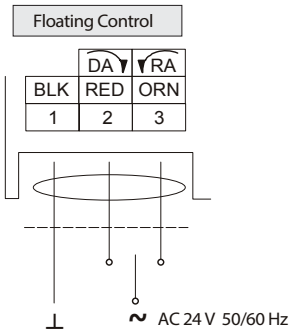
To avoid excessive wear or drive time on the motor, use a controller and/or software that provides a time-out function to remove the signal at the end of rotation (stall).

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

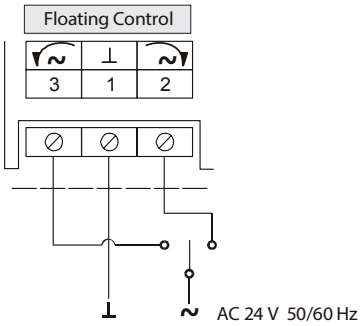
D24-35-TP

PLENUM CABLE



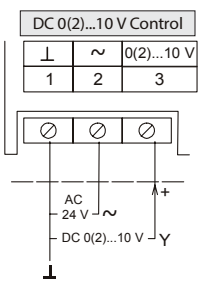
D24-35-T-TS

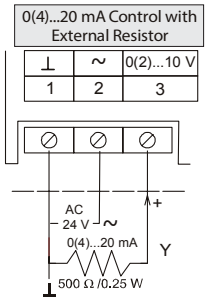
TERMINAL BLOCK

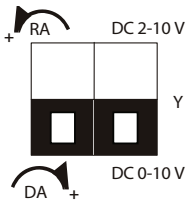


DM24-35

PLENUM CABLE



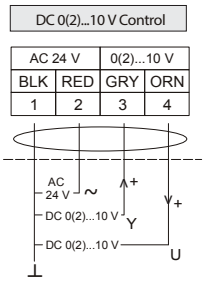


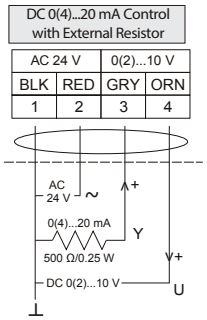


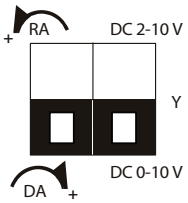
D-35 Actuators are factory set for Direct Acting (DA) mode and for a 0 to 10 VDC input control signal.

DM24-35-TS

TERMINAL BLOCK







D-35 Actuators are factory set for Direct Acting (DA) mode and for a 0 to 10 VDC input control signal.

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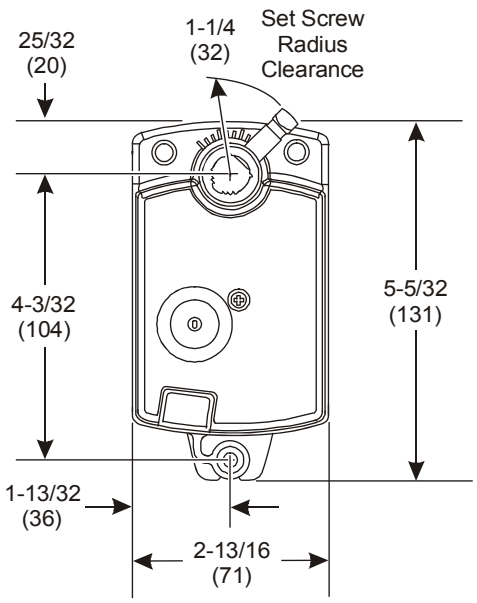
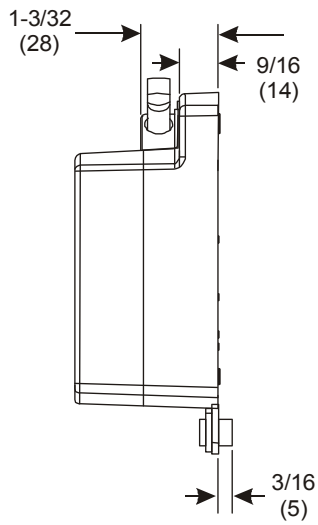
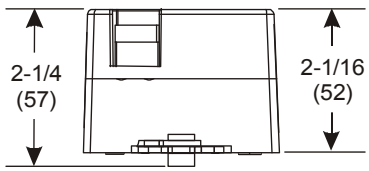
Dimensions







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