



5  
Year  
Warranty

## DMS24-180-(A) — Submittal/Technical Data

06/30/22

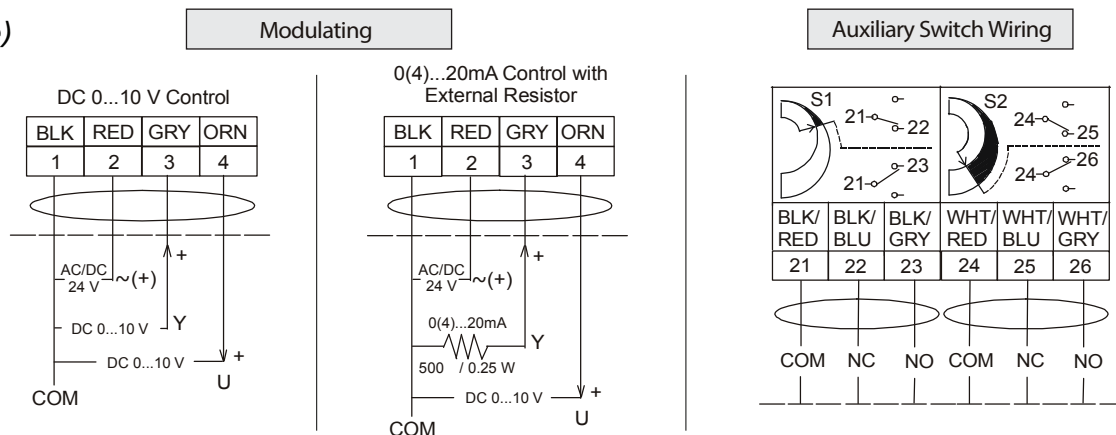
177 lb-in. — Spring Return — Modulating — Auxiliary Switch Option

### Specifications:

Power Requirements	AC 24 V (19.2 to 30 V) at 50/60 Hz: Class 2, 15.5 VA Running, 7.7 VA Holding Position; DC 24 V (21.6 to 26.4 V): Class 2, 6.7 W Running, 2.9 W Holding Position
Auxiliary Switch Rating	Two Single-Pole, Double-Throw (SPDT), Double-Insulated Switches with Gold Flash Contacts: AC 24 V, 50 VA Pilot Duty;
Transformer Sizing	20 VA Minimum per Actuator
Control Input Impedance	100k Ohms
Input Signal	Factory Set DC 0 to 10 V, CW Rotation with Signal Increase; Selectable DC 0 (2) to 10 V or 0 (4) to 20 mA with Field Furnished 500 Ohm, 0.25 W Minimum Resistor; Switch Selectable Direct or Reverse Action with Signal Increase
Feedback Signal	0 (2) to 10 VDC for Desired Rotation Range up to 90°; Corresponds to Rotation Limits, 1 mA Maximum
Spring Return	Direction is Selectable with Mounting Position of Actuator: Side A, Actuator Face Away for CCW Spring Return; Side B, Actuator Face Away for CW Spring Return
Rotation Range	Maximum Full Stroke: 95° (Adjustable Stop: 35 to 95° Maximum Position)
Electric Stall Detection	Protects from overload at all angles of rotation
Torque	177 lb-in. (20 N·m)
Time: 90° of Rotation	Power On (Running) 150 Seconds for 0 to 177 lb-in (0 to 20 N·m) at All Operating Conditions; Independent of Load Power Off (Returning) 20 Seconds for 0 to 177 lb-in (0 to 20 N·m) at Room Temperature
Enclosure	NEMA 2, IP54 - for all mounting directions
Manual Override	Hex Head Screw
Ambient Conditions	Standard Operating -40 to 131°F (-40 to 55°C); 90% RH Maximum, Noncondensing Storage -85 to 185°F (-65 to 85°C); 95% RH Maximum, Noncondensing
Electrical Connections	48 in. (1.2 m) Halogen-Free Cable with 18 AWG (0.75 mm <sup>2</sup> ) Wire Leads
Conduit Connections	Integral Connectors for 3/8 in. Flexible Metal Conduit
Mechanical Connections	Round Shafts 1/2 to 3/4 in. or 12 to 19 mm Square Shafts 3/8 and 1/2 in. or 10, 12, and 14 mm
Life Cycle	60,000 Full stroke cycles (1,500,000 repositions)
Noise Rating	Running < 40 dBA at 39-13/32 in. (1 m) Holding < 20 dBA at 39-13/32 in. (1 m) Returning < 55 dBA at 39-13/32 in. (1 m)
Dimensions	10" (L) x 4" (W) x 3-3/16 (H)
Weight	6.4 lb (2.9 kg)
Agency Certification	UL Listed, CCN XAPX, File E27734; to UL 60730-1A: 2003-08, Ed. 3.1, Automatic Electrical Controls for Household and Similar Use; and UL 60730-2-14: 2002-02, Ed. 1, Part 2, Particular Requirements for Electric Actuators.

### Wiring: (Cable)

For Override Wiring  
please refer to our  
Install Instructions



**NOTE: WARNING:** All DS-180 Series 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.

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.