



LT000 Actuator Non
Spring Return
Damper Actuator



neptronic LT000 Actuator Non Spring Return Damper Actuator Installation Guide

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Medtronic LT000 Actuator Non-Spring Return Damper Actuator



Models

LT000 Actuator: 140 in.lb. (16 Nm) without fail safe

Features

- Mounts easily on round and square shafts
- Manual clutch
- Maintenance-free
- Position indicator
- FD5-T 5000 Ohms feedback potentiometer (optional)
- AC2-T adjustable auxiliary switch (optional)
- Stroke limiting device (SLD) (optional)

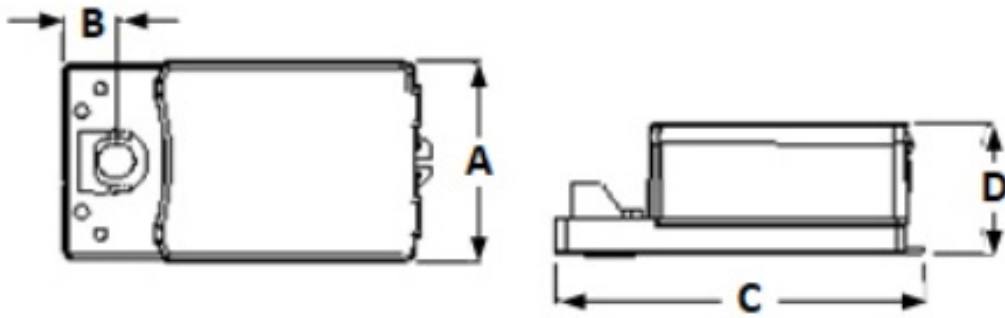
LT000 Actuator



Description	LT000 Actuator
Torque	140 in.lb. [16 Nm] at rated voltage
Motor Type	Brush motor

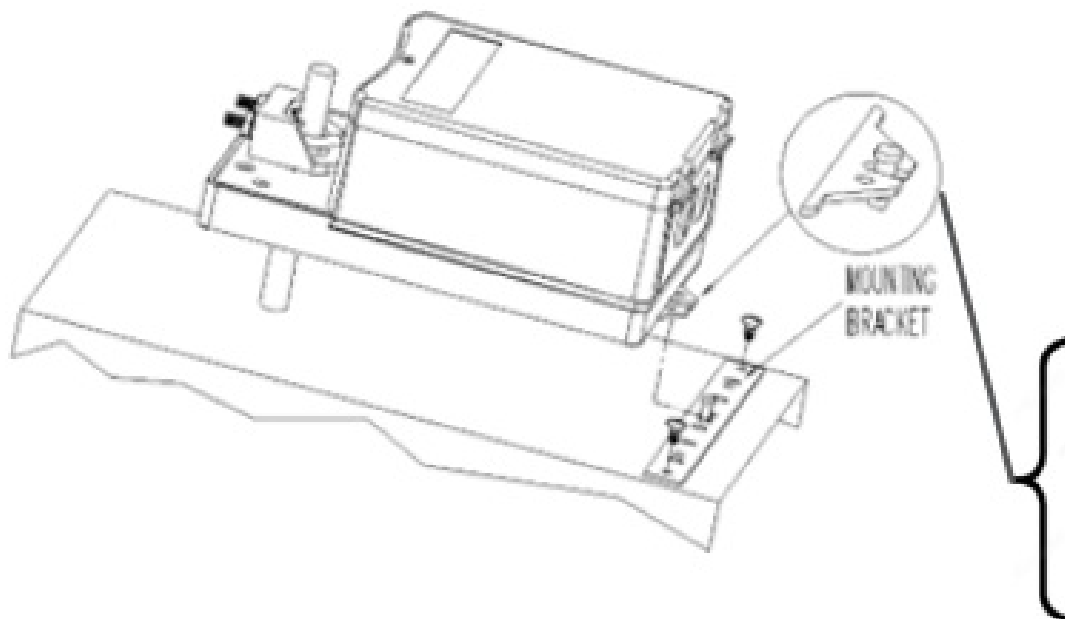
Running Time (for 90° Rotation)	60 to 85 seconds torque dependent
Fail Safe (Enerdrive)	No failsafe
Fail Safe Runtime (0° to 90°)	None
Capacitor Charge Time on / Power-up	None
Power Consumption	6VA
Overload Protection	Electronic throughout, 0° to 90° rotation
Power Supply	22 to 26 Vac 28 to 32 Vdc 50/60Hz
Transformer Requirements	Class 2; 6VA minimum
Cable	N/A
Electrical Connection	Optional BX conduit connector (BW BXCON-1)
Impedance (Input)	N/A
Control Signals	On/Off or floating
Feedback Signals	Optional add-on FD5-T feedback potentiometer
Angle of Rotation	0° to 90°, mechanically adjustable with SLD (optional) (default: 90° stroke)
Direction of Rotation	Reversible, CW: Clockwise, CCW: Counter Clockwise (default: CW)
Noise Produced	45 dB(A)
Ingress Protection	IP22 equivalent to Nema type 2
Operating Temperature	-22°F to +122°F [-30°C to +50°C]
Storage Temperature	-22°F to +122°F [-30°C to +50°C]
Relative Humidity	5 to 95% non-condensing
Weight	4.5 lb. [2kg]
Purpose and Action of Control	Type 1 Operating Control, Electric Actuator
Construction of Control	Independently Mounted
Pollution Degree	2
Impulse Voltage	330V
Quality Management System	ISO 9001:2015
Certification	Complies to standards: UL 60730-1 & UL 60730-2-14, CSA E60730-1 & CSA E60730-2-14
	Complies to Low Voltage Directive & Electromagnetic Compatibility Directive
	Complies to Electrical Equipment (Safety) Regulations & Electromagnetic Compatibility Regulations
WARNING: Risk of mechanical failure. Do NOT press clutch when actuator is in operation.	

Dimensions



- **A** = 5.20" (132mm)
- **B** = 1.33" (34mm)
- **C** = 9.13" (232mm)
- **D** = 3.39" (86mm)

Mechanical Installation



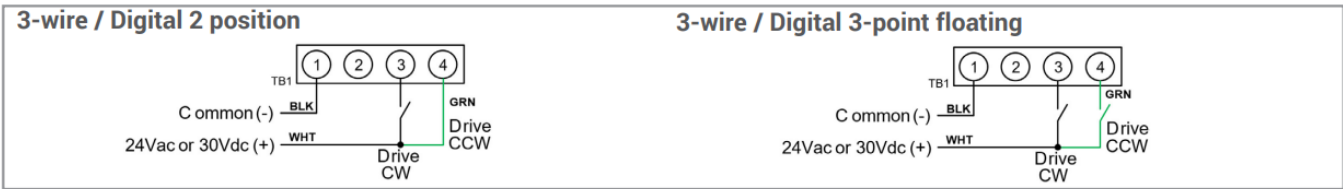
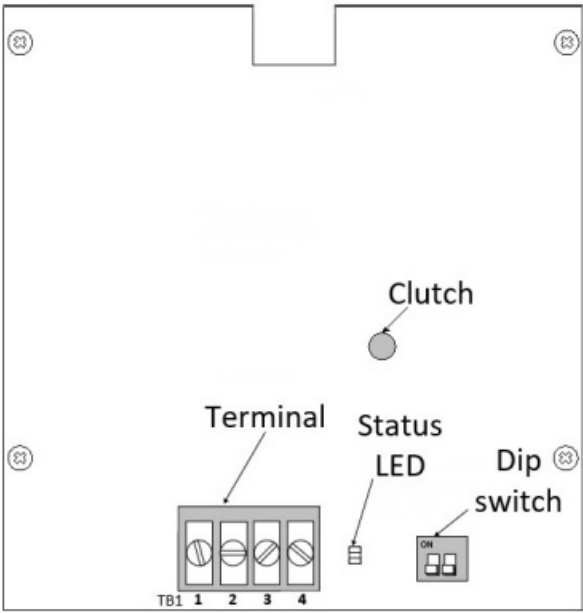
1. Manually close the damper blades and position the actuator to 0° or 90°.
2. Slide the actuator onto the shaft.
3. Tighten the nuts on the "U" bolt to the shaft with a 10mm wrench to a torque of 150 in-lb [17 Nm].
4. Slide the mounting bracket under the actuator. Ensure free movement of the slot at the base of the actuator.
Place the bracket pin at mid-distance of the slot.
5. Affix the bracket to the ductwork with #8 self-tapping screws.

Wiring

We strongly recommend that all products be wired to a separate grounded transformer and that transformer shall service only these products. This precaution will prevent interference with, and/or possible damage to incompatible equipment.

PCB

PCB



DIP Switch Settings

#	Feature	OFF	ON
1	Rotation	CW *	CCW
2	Fail-safe direction	N/A	N/A

* = default

LED Status

State	Description
Flash	Normal operation



Recycling at end of life: please return this product to your Neptronic local distributor for recycling. If you need to find the nearest Neptronic authorized distributor, please consult www.neptronic.com.

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Documents / Resources



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LT000, LT000-250214, LT000 Actuator Non Spring Return Damper Actuator, LT000, Actuator N
on Spring Return Damper Actuator, Non Spring Return Damper Actuator, Return Damper
Actuator, Damper Actuator, Actuator

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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