





Features:

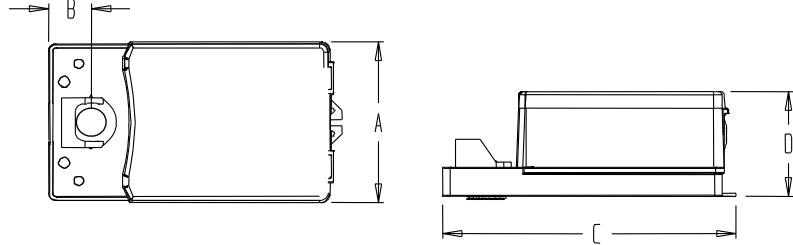
- High voltage power supply: 120 or 240 Vac (on models LT3xx)
- Clutch for manual adjustments
- Maintenance free
- Position indicator
- Fail safe by *Enerdrive System*¹ (on models 060, 065, 080, 360, 365 & 380)
- Auxiliary switches (on models 020, 080, 320 & 380)

LT000
LT005
LT020
LT060
LT065
LT080
LT300
LT305
LT320
LT360
LT365
LT380

Technical Data	LT000	LT005	LT020	LT060	LT065	LT080	LT300	LT305	LT320	LT360	LT365	LT380
Auxiliary switches	No	No	Yes(2)	No	No	Yes (2)	No	No	Yes(2)	No	No	Yes (2)
Feedback	No	Yes	No	No	Yes	No	No	Yes	No	No	Yes	No
Fail safe - <i>Enerdrive</i>	No			Yes			No			Yes		
Power consumption	5 VA			30 VA Peak, 5 VA			8 VA			30 VA Peak, 8 VA		
Control signal	3 wire / 2 position, 3 wire / 3 point floating			2 wire / 2 position, 4 wire / 3 point floating			3 wire / 2 position, 4 wire / 3 point floating			2 wire / 2 position, 4 wire / 3 point floating		
Weight	4.5 lbs. [2 kg]						4.8 lbs. [2.2 kg]					
Power supply	28 to 32 Vdc or 22 to 26 Vac						110 to 130 Vac or 220 to 250 Vac 50/60Hz					
Approvals							 Class 2					
Torque	140 in.lb. [16 Nm] at rated voltage											
Running time through 90°	60 to 85 sec (torque dependant)											
Electrical connection	18 AWG [0.8 mm ²] minimum											
Inlet bushing	2 inlet bushing of 7/8 in [22.2 mm]											
Angle of rotation	0 to 90 degrees, mechanically adjustable with SLD (optional), (factory set with 90° stroke)											
Direction of rotation	Reversible, Clockwise (CW) or Counter clockwise (CCW) (factory set with CW direction)											
Ambient temperature	0°F to +122°F [-18° C to +50° C]											
Storage temperature	-22°F to +122°F [-30° C to +50° C]											
Relative Humidity	5 to 95 % non condensing.											

Warning: Do not press the clutch when actuator is powered

Dimensions



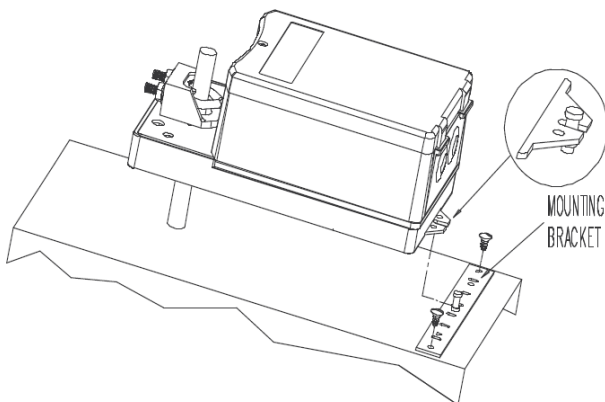
Dimension	Inches	Metric (mm)
A	5.20	132.1
B	1.33	33.8
C	9.13	231.9
D	3.39	86.1

Caution

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

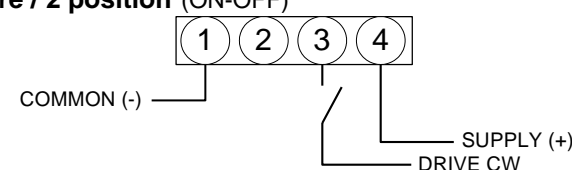
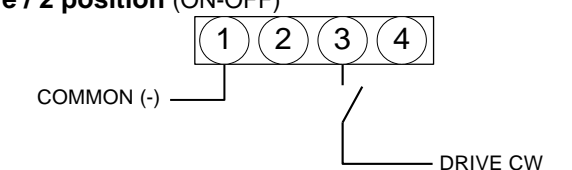
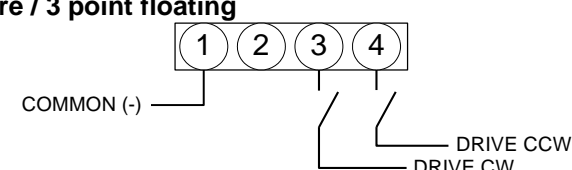
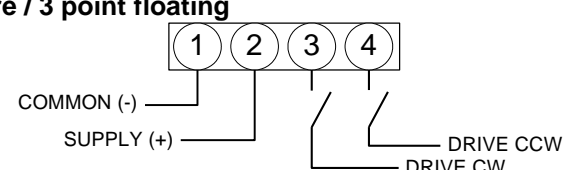
¹ *Enerdrive System* U.S.A. Patent #5,278,454

Mechanical Installation

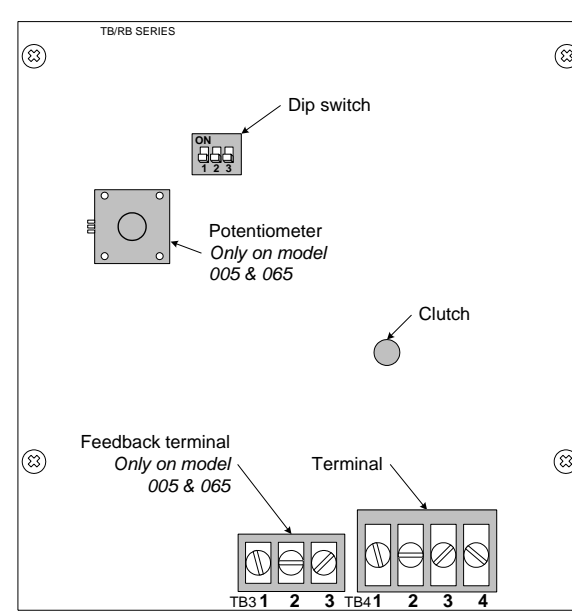


1. Manually close the damper blades and position the actuator at 0° or 90°.
2. Slide the actuator onto the shaft.
3. Tighten the nuts on the “U” bolt to the shaft with a 10mm wrench to a torque of 150 in.lb. [17 Nm].
4. Slide the mounting bracket under the actuator. Ensure free movement of the slot at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

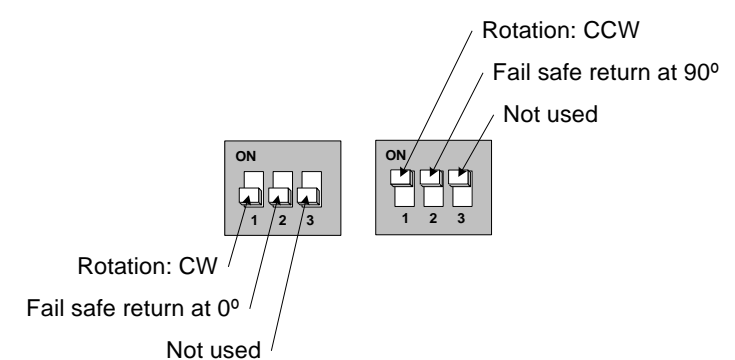
Wiring Diagrams (LT0xx Models)

<p>LT000, 005 & 020</p> <p>3 wire / 2 position (ON-OFF)</p> 	<p>LT060, 065 & 080</p> <p>2 wire / 2 position (ON-OFF)</p> 
<p>3 wire / 3 point floating</p> 	<p>4 wire / 3 point floating</p> 

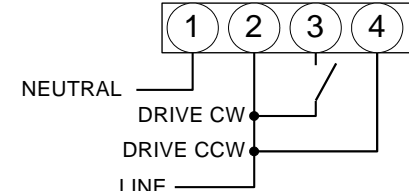
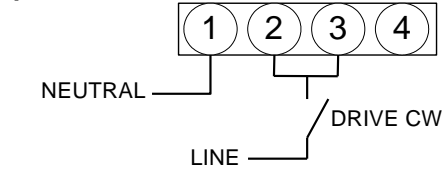
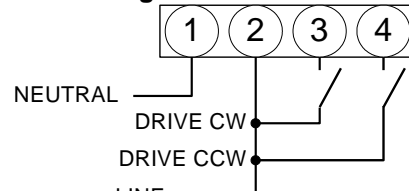
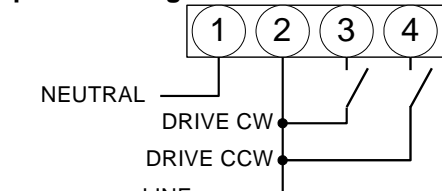
PC Board (LT0xx Models)



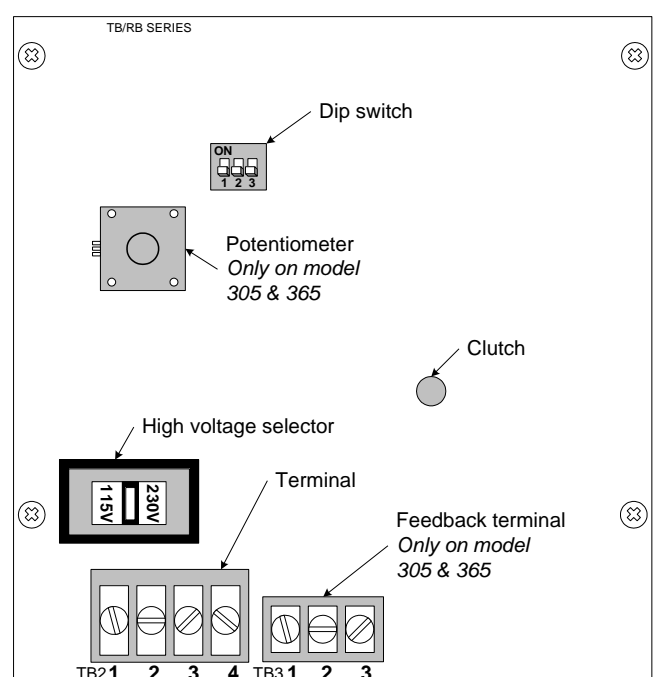
DIP switch settings



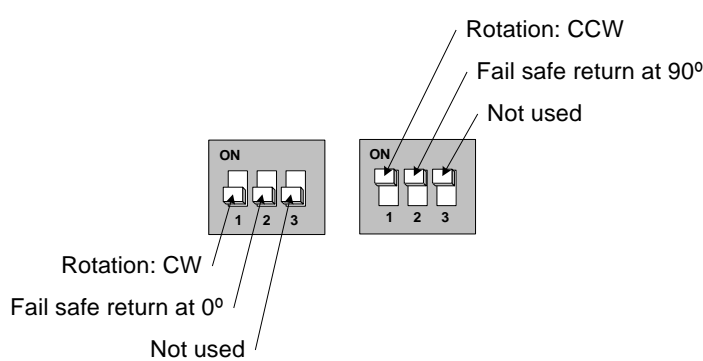
Wiring Diagrams (LT3xx Models)

<p>LT300, 305 & 320</p> <p>3 wire / 2 position (ON-OFF)</p> 	<p>LT360, 365 & 380</p> <p>2 wire / 2 position (ON-OFF)</p> 
<p>4 wire / 3 point floating</p> 	<p>4 wire / 3 point floating</p> 

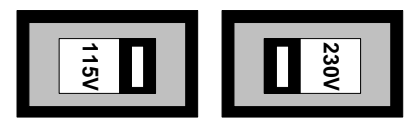
PC Board (LT3xx Models)



DIP switch settings



High voltage selector



Slide the high voltage selector as per voltage used.

Stroke Adjustment

To adjust the stroke, use the stroke limiting device (SLD). (not included)



neptronic®

Actuator
Specification and Installation Instructions



neptronic®

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