

**Feature:**

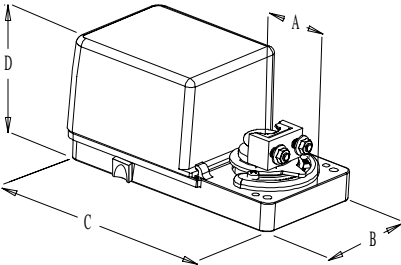
- Mounts easy on round & square shaft (with option -8).
- External clutch for manual adjustments.
- Maintenance free.
- Position indicator.
- Fail safe by *Enerdrive System*¹ (on model 1060, 1065 & 1080).
- Auxiliary switches (on model 1021 & 1080).

	<i>New Number</i>
BBT1000A	<i>BT000</i>
BBT1005A	<i>BT005</i>
BBT1021A	<i>BT020</i>
BBT1060A	<i>BT060</i>
BBT1065A	<i>BT065</i>
BBT1080A	<i>BT080</i>

Technical Data	BBT1000A <i>BT000</i>	BBT1005A <i>BT005</i>	BBT1021A <i>BT020</i>	BBT1060A <i>BT060</i>	BBT1065A <i>BT065</i>	BBT1080A <i>BT080</i>
Auxiliary switches	No	No	Yes (2)	No	No	Yes (2)
Feedback	No	Yes	No	No	Yes	No
Fail safe - Enerdrive	No			Yes		
Power consumption	6 VA			15VA Peak, 6VA		
Control signal	3 wire / 2 position, 3 wire / 3 point floating			2 wire / 2 position, 4 wire / 3 point floating		
Running time through 90°	20 to 30 sec Torque depending					
Torque	50 in.lb. [5,6 Nm] at rated voltage					
Power supply	22 to 26 VAC or 28 to 32 VDC					
Electrical connection	18 AWG [0.8 mm ²] minimum					
Inlet bushing	2 inlet bushing of 5/8 in [15.9 mm] & 7/8 in [22.2 mm]					
Angle of rotation	0 to 90 degrees, mechanically adjustable (factory set with 90° stroke)					
Direction of rotation	Reversible, Clockwise (CW) or Counterclockwise (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.					
Weight	3 lbs. [1.4 kg]					

Warning: Do not press the clutch when actuator is powered

Dimensions



Dimension	Inches	Metric (mm)
A	1.50	38.1
B	3.26	82.8
C	6.60	167.5
D	3.01	76.4

Caution

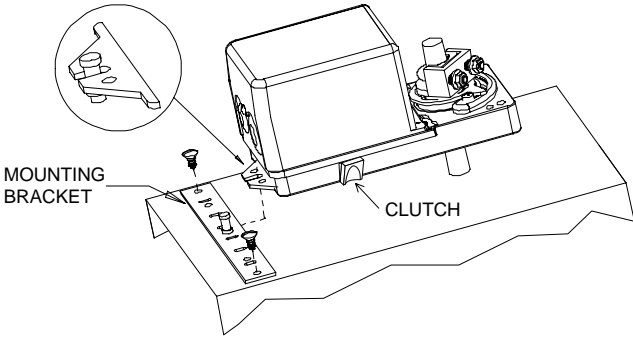
We strongly recommend that all neptronic® products be wired to a separate transformer and that transformer shall service only neptronic® products. This precaution will prevent interference with, and/or possible damage to incompatible equipment.

When multiple actuators are wired on a single transformer, polarity must be observed. Long wiring runs create voltage drop which may affect the actuator performance.

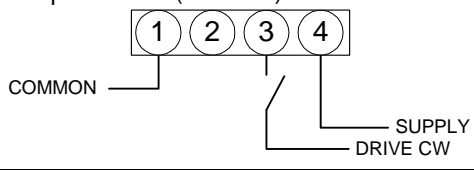
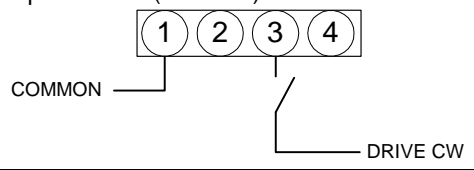
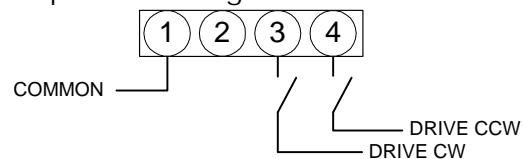
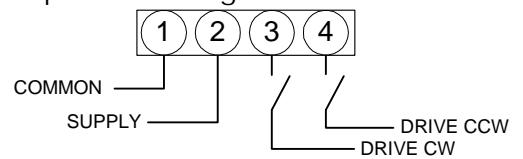
¹ Enerdrive System U.S.A. Patent #5,278,454



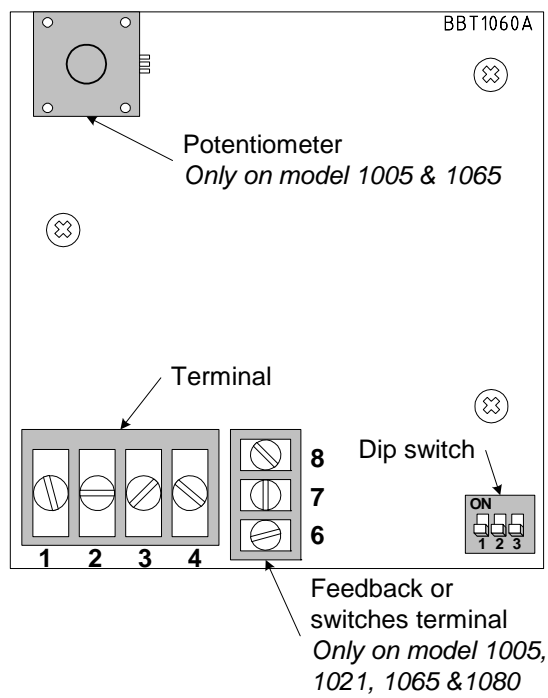
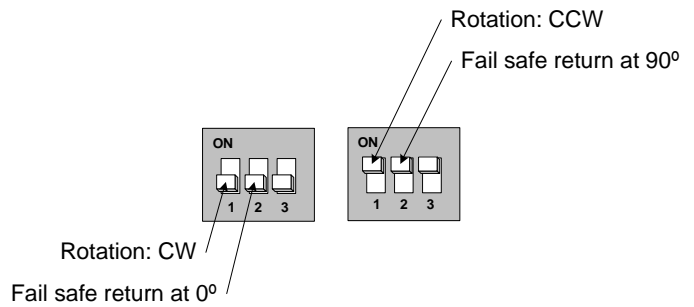
Mechanical installation

	<ol style="list-style-type: none"> 1. Manually close the damper blades and positioned 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 8mm wrench to a torque of 60 in.lb. [6,7 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 in the mid distance of the slot. 5. Fix the bracket to the ductwork with #8 self-tapping screws.
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Wiring Diagrams

<p>Models BBT1000A, 1005A & 1021A</p> <p>3 wire / 2 position (ON-OFF)</p> 	<p>Models BBT1060A, 1065A & 1080A</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

<p>BBT1060A</p> 	<p>Dip switch settings</p> 
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Stroke adjustment

To adjust the stroke, move the adjustment screws at the desired position.