Actuator Specification & Installation instructions

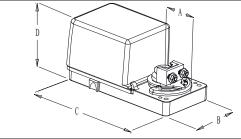


4 (1)	 Feature: Mounts easy on round & square shaft (optional). External clutch for manual adjustments. Maintenance free. 	CT060S CT065S CT080S CT160S CT165S
	 Position indicator. Fail safe by <i>Enerdrive System</i>¹ Auxiliary switches (on models ending by 80S) 	CT180S CT260S CT265S CT280S

Technical Data	CT060S	CT065S	CT080S	CT160S	CT165S	CT180S	CT260S	CT265S	CT280S
Feedback	No	Yes	No	No	Yes	No	No	Yes	No
Auxiliary switches	No	No	Yes(2)	No	No	Yes(2)	No	No	Yes(2)
Power supply	22 to 26VAC 50/60Hz or 28 to 32VDC			110 to 130 VAC 50/60Hz 220 to 250 VAC 50/60Hz				/60Hz	
Approvals	USTED LISTED			Class 2					
Torque	18 in.lb. [2 Nm] at rated voltage								
Fail safe - Enerdrive	Yes								
Power consumption	10VA Peak, 3VA								
Control signal	2 wire / 2 position, 4 wire / 3 point floating								
Running time through 90°	80 - 100 sec (Fail-safe20-40 sec)								
Electrical connection	18 AWG [0.8mm 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.								
Ingress protection	IP22 equivalent to Nema type 2, IP54 equivalent to Nema type 3R if water tight inlet bushings (not supplied NEP617) are installed								
Weight	3 lbs. [1.4 kg]								

Warning: Do not press the clutch when actuator is powered

Dimensions



Dimension	Inches	Metric (mm)
Α	1.50	38.1
В	3.26	82.8
С	6.60	167.5
D	3.01	76.4

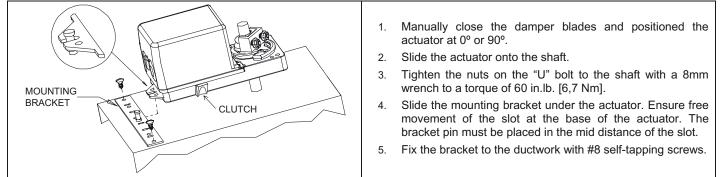
Caution

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.

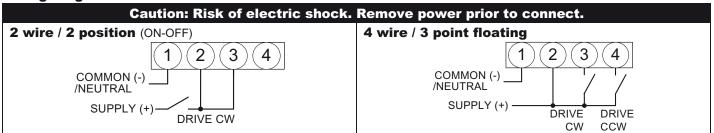
¹ Enerdrive System U.S.A. Patent #5,278,454



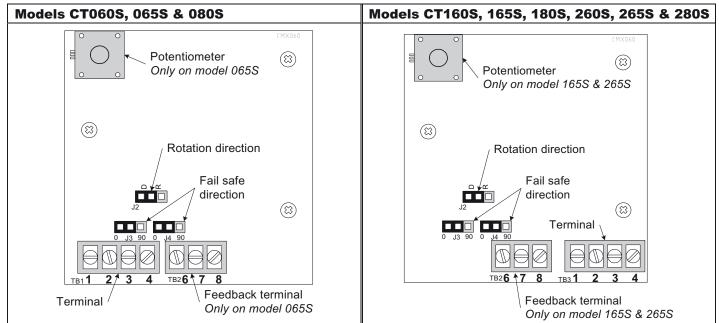
Mechanical installation



Wiring Diagrams



PC Board



Jumper setting

Rotation direction Jumper (J2)	Fail safe direction Jumper (J3 & J4)
DIRECT REVERSE CW CCW (0 to 90°) (90 to 0°)	FAIL SAFE FAIL SAFE

Stroke adjustment

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