**CT280S** 

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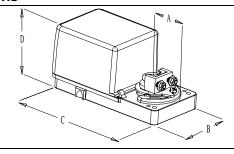




Feature:	CT060S
Mounts easy on round     A service should be should	CT065S
& square shaft (optional).	CT080S
External clutch for manual adjustments.	CT160S
Maintenance free.	CT165S
Position indicator.	CT180S
Fail safe by Enerdrive System <sup>1</sup>	CT260S
Auxiliary switches     (on models ending by 80S)	CT265S
(or models chaing by 666)	07000

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	C 50/60Hz or 2	28 to 32VDC	110 to	130 VAC 50	/60Hz	220 to	250 VAC 50	/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°	18 AWG [0.8mm²] minimum								
Electrical connection									
Inlet bushing									
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			d					
Weight	3 lbs. [1.4 kg]								

# **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.

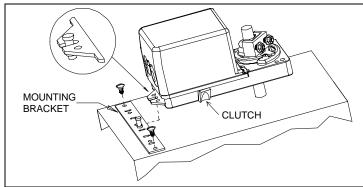
When multiple actuators are wired on a single transformer, polarity must be observed. Long wiring runs create voltage drop which may affect the actuator performance.



CTS/070531 C US

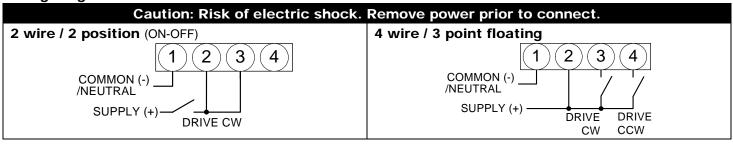
<sup>&</sup>lt;sup>1</sup> Enerdrive System U.S.A. Patent #5,278,454

#### Mechanical installation

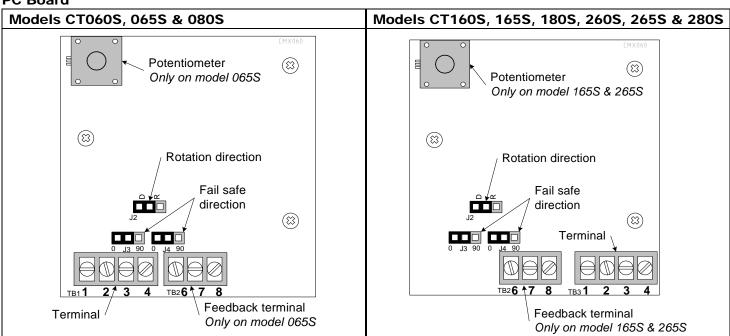


- Manually close the damper blades and positioned the actuator at 0° or 90°.
- 2. Slide the actuator onto the shaft.
- 3. Tighten the nuts on the "U" bolt to the shaft with a 8mm wrench to a torque of 60 in.lb. [6,7 Nm].
- Slide the mounting bracket under the actuator. Ensure free movement of the slot 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.

## **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 RETURN AT 0° RETURN AT 90°

### Stroke adjustment

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