



Actuator Specification & Installation instructions



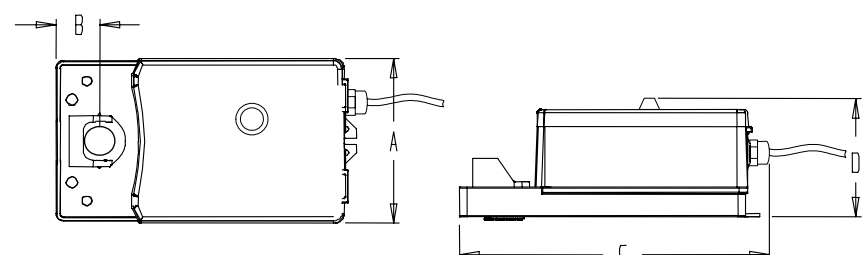
Features:

- **IP 65** equivalent to Nema Type 4 enclosure.
- Dust and water proof clutch for manual adjustments.
- Supplied with cable (pigtail).
- Control signal 2-10VDC.
- Fail safe by *Enerdrive System*¹.
- Maintenance free.

TM000W
TM020W
TM060W
TM080W
RM000W
RM020W
RM060W
RM080W

Technical Data	TM000W	TM020W	TM060W	TM080W	RM000W	RM020W	RM060W	RM080W
Auxiliary switches	No	Yes (2) non adjustable	No	Yes (2) non adjustable	No	Yes (2) non adjustable	No	Yes (2) non adjustable
Fail safe - Enerdrive	No		Yes		No		Yes	
Power consumption	8VA		30VA peak, 8VA		10VA		30VA peak, 10VA	
Torque	180 in.lb. [20 Nm] at rated voltage				360 in.lb. [40 Nm] at rated voltage			
Weight	4.5 lbs. [2 kg]				7 lbs. [3.2 kg]			
Power supply	28 to 32 VDC or 22 to 26 VAC							
Running time through 90°	60 to 85 sec torque dependant							
Control signal	Analog (2-10 VDC)							
Angle of rotation	0 to 93 degrees max., after power up automatically self adjustable to ≤ 93°							
Electrical connection	1 meter long 6 wires plenum cable, 18 AWG [0.8 mm ²] <i>option 020, & 080 supplied with a second 1 meter long 3 wires plenum cable, 18 AWG [0.8 mm²].</i>							
Direction of rotation	Reversible, clockwise (CW) or counter clockwise (CCW)							
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	IP65 equivalent to Nema type 4 with special protection against corrosive agents							
Warning: Do not press the clutch when actuator is powered								

Dimensions



Dimension		
	inch	mm
A	5.20	132.1
B	1.33	33.8
C	9.75	247.7
D	4.00	101.6

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

Wiring Diagrams

TM000W, TM020W or RM000W, RM020W	TM060W, TM080W or RM060W, RM080W

Direction Selection

Rotation CW (0-90°)	Rotation CCW (90-0°)
Leave cable #4 (Direction selection) open	Connect cable #4 (Direction selection) to cable #1 (Common 0 VAC)

Fail Safe Direction Selection

Fail safe return to 0°	Fail safe return to 90°
Leave cable #5 (Direction selection) open	Connect cable #5 (Direction selection) to cable #1 (Common 0 VAC)

Auto Stroke

The auto stroke (actuator automatically running from 0 to end position) is activated **every time** actuator is power up.