



# Actuator Specification & Installation instructions



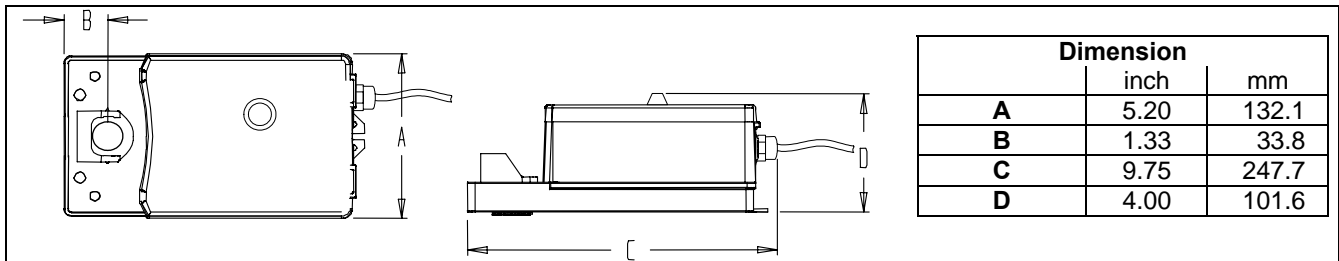
## Features:

- **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*<sup>1</sup>.
- Maintenance free.

LM000W  
LM020W  
LM060W  
LM080W  
LM100W  
LM160W  
LM200W  
LM260W

Technical Data	LM000W	LM020W	LM060W	LM080W	LM100W	LM160W	LM200W	LM260W
<b>Auxiliary switches</b>	No	Yes (2) non adjustable	No	Yes (2) non adjustable	No	No	No	No
<b>Fail safe - Enerdrive</b>	No		Yes		No	Yes	No	Yes
<b>Power consumption</b>	8VA		30VA peak, 8VA		10VA	30VA peak, 10VA	10VA	30VA peak, 10VA
<b>Power supply</b>	28 to 32 VDC or 22 to 26 VAC				110 to 130 VAC 50/60Hz		220 to 250 VAC 50/60Hz	
<b>Weight</b>	4.5 lbs. [2 kg]				4.8 lbs. [2.2 kg]			
<b>Approvals</b>								
<b>Torque</b>	140 in.lb. [16 Nm] at rated voltage							
<b>Running time through 90°</b>	60 to 85 sec torque dependant							
<b>Control signal</b>	Analog (2-10 VDC)							
<b>Angle of rotation</b>	0 to 93 degrees max., <b>after power up automatically self adjustable to ≤ 93°</b>							
<b>Electrical connection</b>	1 meter long 6 wires plenum cable, 18 AWG [0.8 mm <sup>2</sup> ]							
<b>Direction of rotation</b>	Reversible, clockwise (CW) or counter clockwise (CCW)							
<b>Ambient temperature</b>	0°F to +122°F [-18° C to +50° C]							
<b>Storage temperature</b>	-22°F to +122°F [-30° C to +50° C]							
<b>Relative Humidity</b>	5 to 95 % non condensing.							
<b>Ingress protection</b>	IP65 equivalent to Nema type 4 with special protection against corrosive agents							
<b>Warning: Do not press the clutch when actuator is powered</b>								

## Dimensions

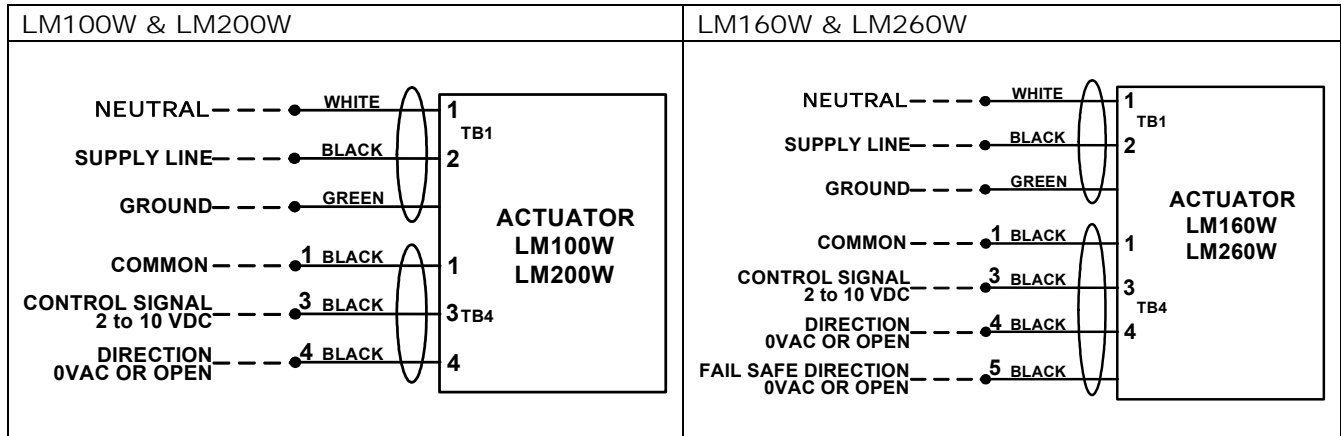
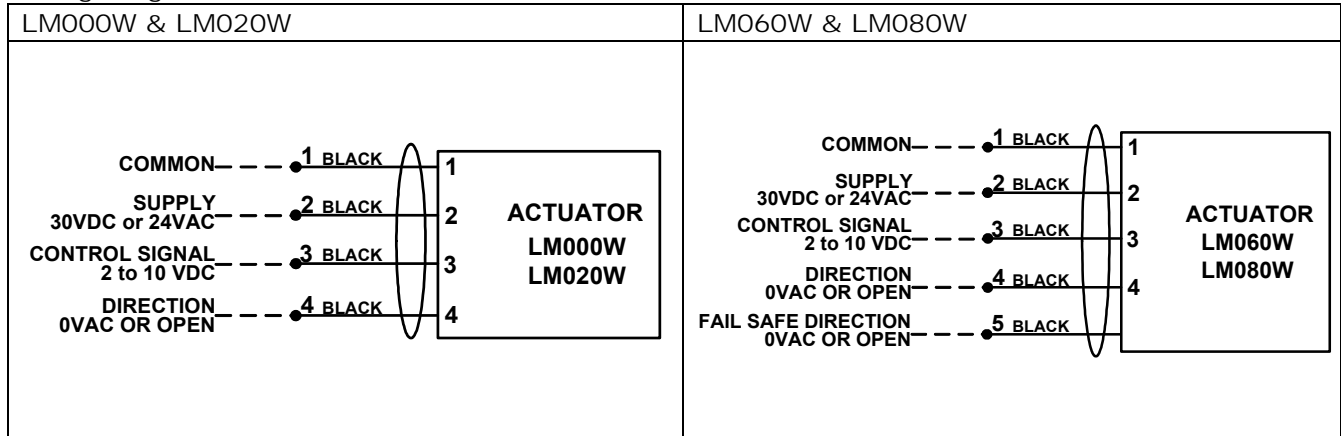


## Caution

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.

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

Wiring Diagrams



Direction Selection

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

Fail Safe Direction Selection

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

Auto Stroke

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