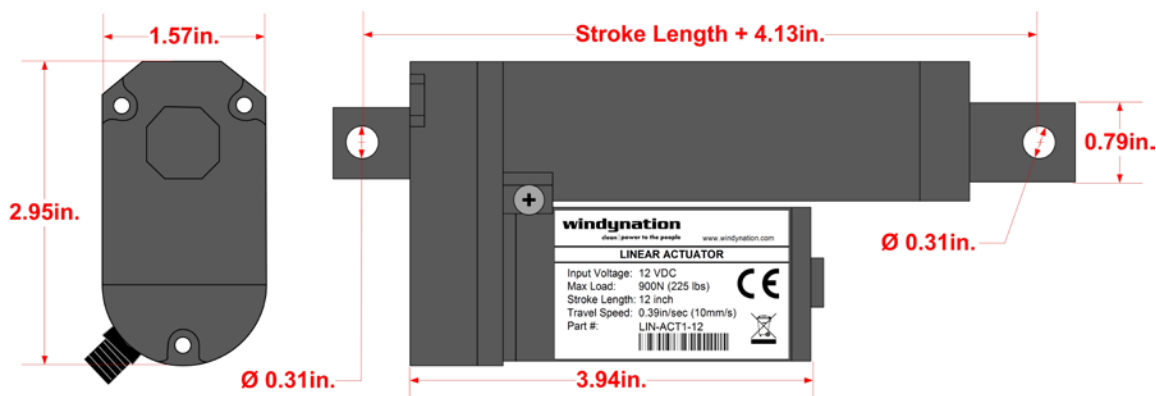


# windynation

## LIN-ACT1-XX Linear Actuators



| SPECIFICATIONS            | LIN-ACT1-02                        | LIN-ACT1-06 | LIN-ACT1-08 | LIN-ACT1-12 | LIN-ACT1-16 | LIN-ACT1-20 |
|---------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|
| Stroke Length             | 2" (51mm)                          | 6" (152mm)  | 8" (203mm)  | 12" (305mm) | 16" (406mm) | 20" (508mm) |
| Rated Load                | 225 lbs (900N)                     |             |             |             |             |             |
| Travel Speed (Max)        | 0.39 in/sec (10 mm/sec)            |             |             |             |             |             |
| Rated Voltage             | 12VDC                              |             |             |             |             |             |
| Minimum Install Dimension | Stroke Length + 4.33" (110mm)      |             |             |             |             |             |
| Mounting Holes            | 0.31" (8mm)                        |             |             |             |             |             |
| Limit Switches            | Fixed Inner (not adjustable)       |             |             |             |             |             |
| Operation Temperature     | -14.8°F to +149°F (-26°C to +65°C) |             |             |             |             |             |
| Protection Class          | IP65                               |             |             |             |             |             |
| Duty Cycle                | 25%                                |             |             |             |             |             |
| Noise Level               | ≤ 50dB                             |             |             |             |             |             |



### INSTALLATION

**WARNINGS:**

1. The load added onto the actuator must be less than or equal to the rated load of actuator.
2. Install the actuator so the force of the load acts in the center of the extension tube and rear mounting adapter. Off-centered loads will cause the actuator shaft to rub against the housing and will damage the actuator.
3. Do not exceed the 25% duty cycle of the actuator: If the actuator is used at full load for 2.5 minutes, then it must remain off for 7.5 minutes. Exceeding the duty cycle will cause the actuator motor to overheat.

1. Mount the actuator by securing the top and bottom mounting holes to two fixed positions. The stroke length of the actuator (e.g. 12 inches) and the limitations of the particular application will determine the location of the fixed mounting positions.

**IMPORTANT:** Confirm up/down movement of actuator is smooth and within actuators stroke length after installation.

2. Secure the top and bottom mounting holes of the linear actuator onto the two mounting fixtures using 5/16" diameter bolts.
3. Connect the red wire to the positive post and the black wire to negative post of the 12 volt DC power supply.
4. The operation of the linear actuator should be tested manually after the installation is completed.

Users should use caution to ensure that:

- The travel distance of the actuator satisfies the requirement of the structural design.
- The extended and retracted limit switches operate normally (The limit switches should stop the motor when the extension tube is fully retracted or fully extended)
- If the motor runs too slow or does not give full force, (1) the power supply is insufficient and needs to be increased or (2) the load being applied to the actuator is too great and needs to be reduced to less than or equal to 225 lbs.

### WARRANTY

Windy Nation warrants the item to be free of manufacturing flaws for a period of 90 days.

Windy Nation is not responsible for any injuries and/or damages caused as a result of not complying with the specifications stated.