Standard Features:

- Carbon steel frame and extension tube
  - Aluminum gearbox housing
- Input voltage: 12VDC, 24VDC
- Standard gear ratio: 20:1 [other ratios available]
- Dynamic load range: 337 lbs. [1,500 Newtons] - 787 lbs. [3,500 Newtons]
- Maximum static load: 1,012 lbs. [4,500 Newtons] (ACME)
- Maximum current draw (at full load): 11.0 - 17.6 Amps @ 12 VDC
- Speed at no load: 0.33 in/sec [8.4 mm/sec] - 1.32 in/sec [33.5 mm/sec]
- Speed at full load: 0.29 in/sec [7.4 mm/sec] - 1.05 in/sec [26.7 mm/sec]
- Overload clutch
- Mounting hole diameter (both ends): 1/2" [13mm]
- Duty cycle: 25% or 2 min continuous operation in 8 min.
- Working temperature: -13F [-25C] to +149F [+65C]
- IP rating: IP65

Accessories:

- Mounting brackets
- Direction reversing switches
- Direction reversing relays
- Direction reversing wireless controllers
Dimensions

Standard (without Limit Switches or Potentiometer)

<table>
<thead>
<tr>
<th>Nominal Stroke</th>
<th>4”</th>
<th>6”</th>
<th>8”</th>
<th>12”</th>
<th>18”</th>
<th>24”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in</td>
<td>in</td>
<td>in</td>
<td>in</td>
<td>in</td>
<td>in</td>
</tr>
<tr>
<td>Actual Stroke (S)</td>
<td>4.02</td>
<td>6.02</td>
<td>8.03</td>
<td>12.05</td>
<td>18.07</td>
<td>24.09</td>
</tr>
<tr>
<td>Retracted Length (A)</td>
<td>10.24</td>
<td>12.24</td>
<td>14.25</td>
<td>18.27</td>
<td>22.28</td>
<td>26.28</td>
</tr>
<tr>
<td>Extended Length</td>
<td>14.25</td>
<td>18.27</td>
<td>22.28</td>
<td>30.31</td>
<td>45.28</td>
<td>57.32</td>
</tr>
</tbody>
</table>

Tolerance: ±5mm

Concentric International
1901 Bell Ave., Suite 18, Des Moines, IA 50315
www.concentricintl.com
Rev. 20190703
### Dimensions

**With Potentiometer Only**

![Diagram of Linear Actuator Dimensions](image)

<table>
<thead>
<tr>
<th>Nominal Stroke</th>
<th>4&quot; (in)</th>
<th>4&quot; (mm)</th>
<th>6&quot; (in)</th>
<th>6&quot; (mm)</th>
<th>8&quot; (in)</th>
<th>8&quot; (mm)</th>
<th>12&quot; (in)</th>
<th>12&quot; (mm)</th>
<th>18&quot; (in)</th>
<th>18&quot; (mm)</th>
<th>24&quot; (in)</th>
<th>24&quot; (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual Stroke (S)</td>
<td>4.02</td>
<td>102</td>
<td>6.02</td>
<td>153</td>
<td>8.03</td>
<td>204</td>
<td>12.05</td>
<td>306</td>
<td>18.07</td>
<td>459</td>
<td>24.09</td>
<td>612</td>
</tr>
<tr>
<td>Retracted Length (A)</td>
<td>11.81</td>
<td>300</td>
<td>13.82</td>
<td>351</td>
<td>15.83</td>
<td>402</td>
<td>19.84</td>
<td>504</td>
<td>28.78</td>
<td>731</td>
<td>33.23</td>
<td>844</td>
</tr>
<tr>
<td>Extended Length</td>
<td>15.83</td>
<td>402</td>
<td>19.84</td>
<td>504</td>
<td>23.86</td>
<td>606</td>
<td>31.89</td>
<td>810</td>
<td>46.85</td>
<td>1190</td>
<td>57.32</td>
<td>1456</td>
</tr>
</tbody>
</table>

Tolerance: ±5mm
# Dimensions

With Only Limit Switches or Limit Switches and Potentiometer

<table>
<thead>
<tr>
<th>Nominal Stroke</th>
<th>4&quot;</th>
<th>6&quot;</th>
<th>8&quot;</th>
<th>12&quot;</th>
<th>18&quot;</th>
<th>24&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual Stroke (S)</td>
<td>3.50</td>
<td>5.51</td>
<td>7.52</td>
<td>11.54</td>
<td>17.56</td>
<td>23.58</td>
</tr>
<tr>
<td>Retracted Length (A)</td>
<td>12.05</td>
<td>14.06</td>
<td>16.06</td>
<td>20.08</td>
<td>29.02</td>
<td>35.04</td>
</tr>
<tr>
<td>Extended Length</td>
<td>15.55</td>
<td>19.57</td>
<td>23.58</td>
<td>31.61</td>
<td>46.57</td>
<td>58.62</td>
</tr>
</tbody>
</table>

Tolerance: ±7mm
Performance Data

<table>
<thead>
<tr>
<th>Gear Ratio</th>
<th>Max Load/Dynamic</th>
<th>Speed/No Load</th>
<th>Speed/Max Load</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lbs. [US]</td>
<td>inches/sec</td>
<td>mm/sec</td>
</tr>
<tr>
<td>10:1</td>
<td>337</td>
<td>1.32</td>
<td>33.5</td>
</tr>
<tr>
<td>20:1</td>
<td>562</td>
<td>0.66</td>
<td>16.8</td>
</tr>
<tr>
<td>40:1</td>
<td>787</td>
<td>0.33</td>
<td>8.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gear Ratio</th>
<th>Typical Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No Load</td>
</tr>
<tr>
<td></td>
<td>12 VDC 24 VDC</td>
</tr>
<tr>
<td>10:1</td>
<td>2.4 1.2</td>
</tr>
<tr>
<td>20:1</td>
<td>2.4 1.2</td>
</tr>
<tr>
<td>40:1</td>
<td>2.4 1.2</td>
</tr>
</tbody>
</table>
LINEAR ACTUATOR
INDUSTRIAL DUTY
LACT ACME DRIVE SERIES

Electrical

Standard

Gear Ratio: 10:1, 20:1
Red + // Black - : Extend
Red - // Black + : Retract

Gear Ratio: 40:1
Red + // Black - : Retract
Red - // Black + : Extend

With Limit Switches

Gear Ratio: 10:1, 20:1, 40:1
Red + // Black - : Extend
Red - // Black + : Retract

With Potentiometer
(or Limit Switches and Potentiometer)

Gear Ratio: 10:1, 20:1, 40:1
Red + // Black - : Extend
Red - // Black + : Retract
Potentiometer

When fully retracted, the potentiometer reading will be in the range of 0 - 600Ω (between the blue and the white wires).

When fully extended, the potentiometer reading will be in the range of 8K - 10KΩ (between the blue and the white wires).

Base Stud Mount Hole Orientation
Ordering Key

**LACT**

- Stroke (nominal)
  - 4: 4” [102mm]
  - 6: 6” [153mm]
  - 8: 8” [203mm]
  - 12: 12” [305mm]
  - 18: 18” [457mm]
  - 24: 24” [610mm]
  - Additional stroke lengths available

- Drive Type
  - 500A: AMCE Screw (562 lbs. @ 20:1)

- Potentiometer
  - P: Has a potentiometer
  - <Blank>: If no potentiometer

- Limit Switches
  - L: Has limit switches
  - <Blank>: If no limit switches

- Options
<table>
<thead>
<tr>
<th>Gear Ratio</th>
<th>12 VDC</th>
<th>24 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:1</td>
<td>D</td>
<td>H</td>
</tr>
<tr>
<td>20:1</td>
<td>&lt;Blank&gt;</td>
<td>I</td>
</tr>
<tr>
<td>40:1</td>
<td>F</td>
<td>K</td>
</tr>
</tbody>
</table>

- Not all combinations stocked
- 48 VDC available by special request

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