Actuator LA32
Data sheet
The LA32 is a powerful actuator that can be supplied with a ball screw spindle to give outstanding performance. The ideal choice for a wide range of applications including adjustment of hospital beds.

The LA32 has many special options including a safety nut, splines, quick release (F) and an optional protection class up to IPX6 standard.

**Features and options:**
- 24V DC permanent magnet motor
- Thrust up to 6000 N (with ball screw)
- Stainless steel piston rod
- High-strength plastic housing protects motor and gears
- Elegant and compact design with small installation dimensions
- Protection class: IPX1, IPX5, IPX6 washable
- Colours: black, grey
- 2250 mm straight cable with 6.3 mm jack plug
- Low noise level: 46 dB (A); measuring method DS/EN ISO 3743-1, actuator not loaded
- Reed-switch for exact positioning (8 pulses per spindle revolution)
- Mechanical splines function (push only)
- Electrical splines function, built-in micro-switch in back fixture, the actuator can therefore only be used for push. (Only on 01 and 02 back fixture)
- LA32K with ball screw and double-acting brake (i.e. push and pull / both directions)

**Usage:**
- Duty cycle: Max. 10% or 2 minutes continuous use followed by 18 min. not in use
- Ambient temperature +5 °C to +40 °C
- Compatibility: Compatible with LINAK control boxes. Please contact LINAK.

**Accessories:**
- Optical encoder
- SLS: safety limit switch
**Technical specifications:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Spindle pitch (mm)</th>
<th>Thrust max. (N)</th>
<th>*Self-lock max. (N)</th>
<th>Stroke length</th>
<th>Typical speed 0/full load (mm/s)</th>
<th>Typical amp. 24V at full load (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>321xxx+00xxx4xx</td>
<td>3</td>
<td>4000</td>
<td>4000</td>
<td>100 150 200 250 300 350 400</td>
<td>7 / 5.5</td>
<td>3.5</td>
</tr>
<tr>
<td>322xxx+40xxx4xx</td>
<td>6</td>
<td>3000</td>
<td>3000</td>
<td>100 150 200 250 300 350 400</td>
<td>13.6 / 8.5</td>
<td>4.5</td>
</tr>
<tr>
<td>32Kxxx+x0xxx4xx</td>
<td>4</td>
<td>6000</td>
<td>6000</td>
<td>- 150 200 250 300 350 400</td>
<td>8.7 / 6.8</td>
<td>4.7</td>
</tr>
<tr>
<td>32Kxxx+10xxx4xx</td>
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</tbody>
</table>

The above measurements are made in connection with a CB12, the LA32JKSM with a CBJ1 high speed. The self-locking values are based on a short-circuited motor.

* LINAK control boxes are designed so that they will short-circuit the motor terminals (poles) of the actuator(s) when the actuator(s) are not running. This solution gives the actuator(s) a higher self-locking ability. If the actuator(s) are not connected to a LINAK control box the terminals of the motor must be short-circuited to achieve the above mentioned self-locking ability.

**K** = Ball screw

**KAS** = Ball screw with safety nut

**KSM** = Ball screw with splines and safety nut

**R** = Reed-switch

**KAS** and **KSM** are only available on LA32K (with ball screw)

Maximum load in pull = 2000N
LA32
Ordering example:

32 1 1 0 0 + 1 0 4 0 0

Cables:
- Jack cable (General tolerance +/- 0.07 m)
- 0 = *Straight 2.3 m
- 1 = *Straight 1.05 m
- 2 = *Coiled 0.4 m
- 3 = *Coiled 0.2 m
- 4 = Straight without plug 0.5 m (Potentiometer) always black
- 5 = Straight without plug 1 m (CS) always black
- X = *Other cable / length
  * always the same colour as the actuator

Protection Class:
- 0 = IPX1
- 1 = IPX5
- 2 = IPX6 Washable

Motor type:
- 4 = 24V L-motor standard motor, will always have to be chosen for use with a LINAK control box

Stroke length:
- XXX = mm
  Max. 400 mm for 3-6 mm pitch (up to 600 mm with special (20%) items)
  Max. 500 mm for 9-12 mm pitch (up to 600 mm with special (20%) items)
  Min. 100 mm

Install. dim.
- 0 = Standard
- X = Other install. dim.

Option:
- 0 = None
- 1 = Safety nut RECOMMENDED
- 2 = Steel splines
- 3 = Steel splines with safety nut
- 4 = Brake
- 5 = Brake with safety nut

Colour:
- + = Grey
- - = Black

Option:
- 0 = None

Positioning C/S
- 0 = None

Optical encoder:
- R = Reed switch

Back Fixture:
- 1 = Standard
- 2 = Turned 90 degrees
- 5 = Large standard
- 6 = Large turned 90 degrees
- A = Standard with El-splines
- B = Turned 90 degrees with El-splines

Spindle type:
- 1 = 3 mm (1 threaded)
- 2 = 6 mm (2 threaded)
- 3 = 9 mm (3 threaded)
- 7 = 12 mm (4-threaded)
- 8 = 5 mm (2-threaded)
- K = Ball spindle

Actuator type:
- 32 = LA32
Dimension:

Installation dimensions:
(Min. install dim. 273 mm)
- S + 173: (with/without safety nut)
- S + 181: (LA32K, with/without safety nut)
- S + 184: with splines
- S + 198: with splines and safety nut
- S + 210: LA32K, LA32KAS, LA32 with safety nut
- S + 215: with brake
- S + 267: LA32KSM

3D view of the back fixture.
(here type "01" is shown.
Drawing no.: 0321200)
Graphs:

LA32 speed vs load

LA32 current vs load
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