

ACTUATOR LA31

Features:

- 12V or 24 V DC permanent magnet motor
- Thrust up to 3500 N
- Smaller built-in dimension with short piston rod eye and back fixture
- High-strength plastic housing protects motor and gears
- Storage and transport temperature: -20° to +40°C
- Colour: black
- 2.30 m straight cable with AMP connector or 0.25 m straight cable with mini fit connector
- Built-in limit switches (not adjustable)
- Scratch and wear-resistant powder painting on outer tube $\varnothing 30$ mm
- Strong wear and corrosion resistant stainless steel inner tube
- Brake which increases the self-locking to 2500 N for LA31 with 6 mm pitch
- Noise level 48dB(A); measuring method DSI/EN ISO 3746, actuator not loaded

Options:

- Hall sensors (24 pulses per spindle revolution) for exact positioning of memory control and compatibility with CBD
- Fast motor with double worm gear
- 1.8 m and 0.9 m cable with connector
- Safety nut for push applications

Usage:

- Duty cycle: Max. 5% or 1 min. in continuous use followed by 19 minutes not in use.
- Ambient temperature +5°C to +40°C



DESKLINE[®]
IMPROVING ERGONOMICS

The LA31 actuator is a very quiet and powerful actuator designed for a variety of applications. The standard LA31 actuator is also available for the TECHLINE[®], HOMELINE[®], and CARELINE[®] product range.

The LA31 actuator is available in three versions, specially developed for desk applications:

- LA31 with 12V motor in combination with control box type CBD4, using hall sensor and Mini-fit motor cables and forward outlet.
- LA31 with a standard motor in combination with control box type CBD3 using hall sensors and the DESKLINE[®] motor cable (fixed).
- LA31 with a fast motor, double threaded worm gear, DESKLINE motor cable (fixed) and the option of hall sensors for memory drive. The actuator can only be used together with the CBD2 control box for single column actuator applications.

LA31 version for desk applications (L4 version, fast motor):

This LA31 is specially designed for single actuator/ column applications. The LA31 version can only be combined with CBD2 with or without memory. The actuator is available with 3 spindle types and 3 different cable lengths. Furthermore it is possible to order the actuator with cable outlet as standard from the plastic housing or as a forward outlet, please see drawings.

LA31 in combination with CBD4:

CBD4 with software 77432 version 1.06 or later must be used. Appropriate version of LA31 is set in the CBD4 using LINAK configuration software.



Do not use configuration software version 1.31.

- Anti-collision is not possible.
- Multi parallel is not possible.
- SLS (CBDSLS001) is possible with LA31 produced from April 2008.

Dimensions of LA31 in combination with CBD4:

LA31 in combination with CBD4 need to be initialized at starting up. The stroke length is therefore reduced and the installation dimension increased. The values are the same for the different spindle types.

Reduction of stroke length	Increase of installation dimensions
3 mm	1.5 mm



Please note that cable type "S" used to be a 1.8m DESKLINE cable with standard outlet. S will in the future be a mini fit cable for CBD4 (see ordering example).

Technical specifications:

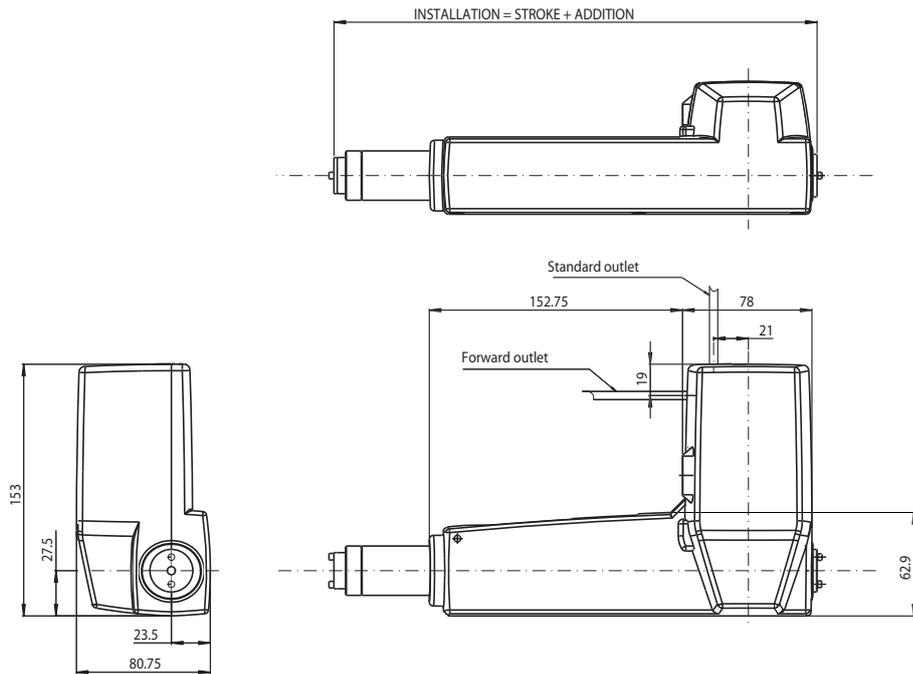
Spindle type	Spindle pitch (mm)	Max. load Push (N)	Max. load Pull (N)	Typical Amp. Full loaded (N)	Typical speed Unloaded (mm/s)	Typical speed Full load (mm/s)	Self-lock Push (N)	Max. Push (N)
Standard 24V motor								
313XX-X1XXXXXX	9	1500	1500	2.5	19.4	10.5	1500	1500
316XX-X1XXXXXX	12	1000	1000	2.4	26.6	14.5	1000	1000
317XX-X1XXXXXX	6	2500	2500	2.5	13.2	6.8	2500	2500
Fast motor double worm gear								
313XX-X1XXXXXX	9	1500	1500	4	30	25	1500	1500
316XX-X1XXXXXX	12	1000	1000	4	43	32	1000	1000
317XX-X1XXXXXX	6	2500	2500	4	20	15	2500	2500

LA31 DESKLINE

Ordering example:

<p>31 3 3 4 H - 0 1 1 0 0 0 Q</p>	<p>Cables: Q = 2300 mm standard outlet for CBD2 or CBD3 R = 2300 mm forward outlet for CBD2 or CBD3 S = Mini fit cable 0.25m (black) forward outlet for CBD4 (always with hall) T = 1800 mm forward outlet for CBD2 or CBD3 U = 900 mm standard outlet for CBD2 or CBD3 V = 900 mm forward outlet for CBD2 or CBD3</p> <p>IP degree: 0 = Standard</p> <p>Motor type: 0 = 24VDC Standard 0020574 4 = 24VDC Fast motor double worm gear L40020057-A 5 = 12VDC Standard motor for CBD4 (always with cable type S)</p> <p>Stroke length: XXX = Max 500 mm</p> <p>Brake: 0 = Standard (none) 1 = Brake push</p> <p>Spindle: 0 = Standard (none) 1 = Safety Nut</p> <p>Colour: - = Black</p> <p>Position: 0 = Standard (none) H = Hall</p> <p>Piston rod eye: 0 = Standard with slot (031339) 1 = Standard solid 2 = Standard painted 3 = Standard gold chrom 4 = Standard for DL2</p> <p>Back fixture: 1 = Standard with 6.1 mm slot, ø10.1mm hole (031189-B) 2 = Standard with 6.1 mm slot, ø10.1mm hole, turned 90° (031189-B) 3 = Standard DL2 (0572002-A) 4 = Standard DL2 (0572002-A), turned 90° 5 = Flexible, ø10.1 mm hole 6 = Flexible, ø10.1 mm hole, turned 90° 7 = Solid, ø12.1 mm hole 8 = Solid, ø12.1 mm hole, turned 90° A = Standard, 10.5 mm slot, 12.2 mm hole B = Standard, 10.5 mm slot, 12.2 mm hole, turned 90°</p> <p>Spindle type: 1 = 3 mm (brake not possible, max stroke 250 mm) 3 = 9 mm 6 = 12 mm 7 = 6 mm (max. stroke 300 mm)</p> <p>Type: LA31</p>
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Dimensions LA31



Additions to the installation dimensions with different combinations of piston rod eyes and back fixtures to LA31.

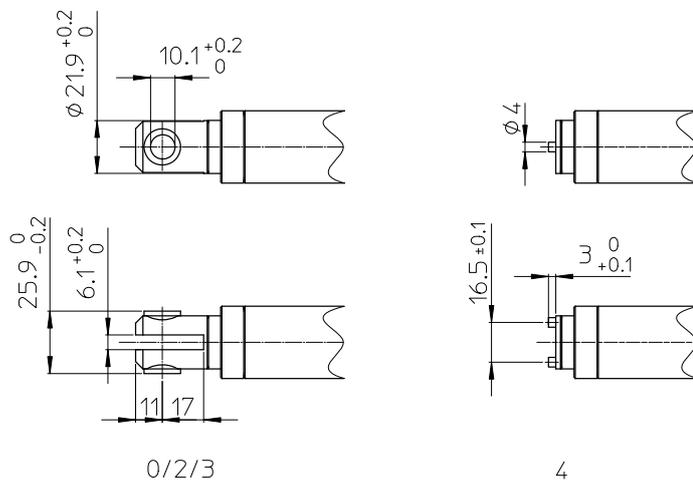
LA31 Standard		
Piston rod eye	Stroke length > 115 mm	Stroke length > 115 mm
	Type 0	Type 4
Back Fixture		
1/2	S +173 mm	
3/4		S +139 mm

S = Stroke length

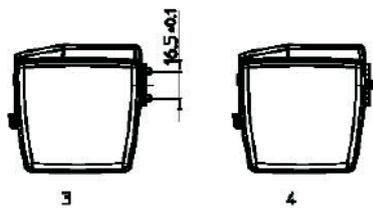
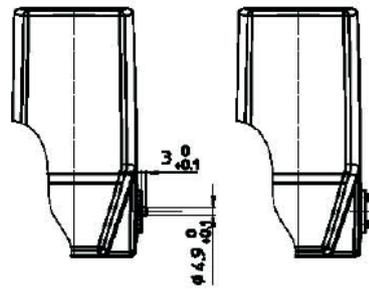
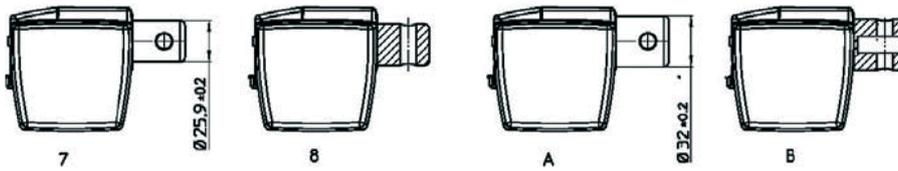
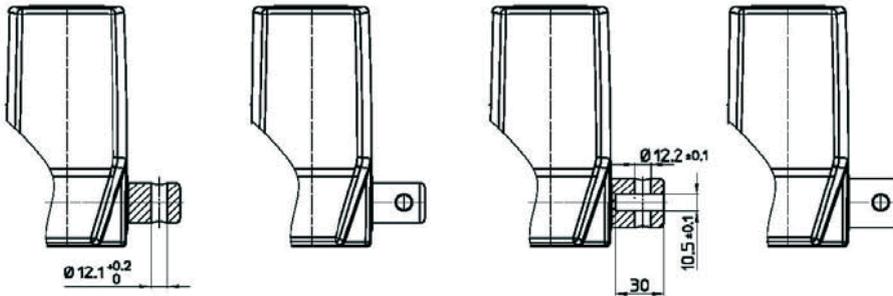
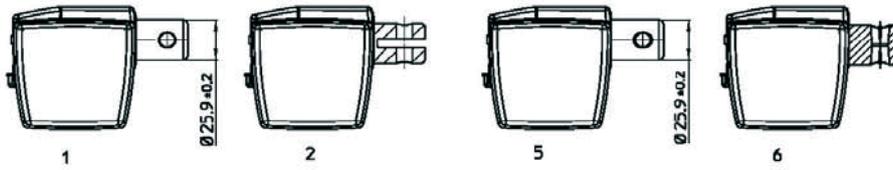
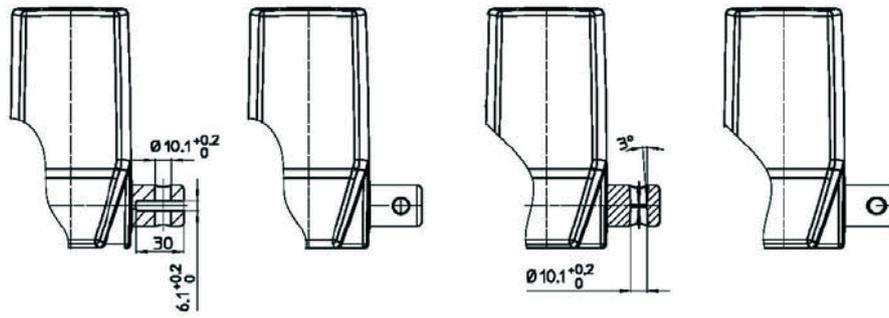
For stroke lengths of 115 mm or less the installation dimension will be 288 mm, for actuators with back fixture 1/2 and piston rod eye type 0.

Min. installation dimension with back fixture 3/4 and piston rod eye 4, is 254 mm.

Piston Rod Eyes:



Back fixtures:

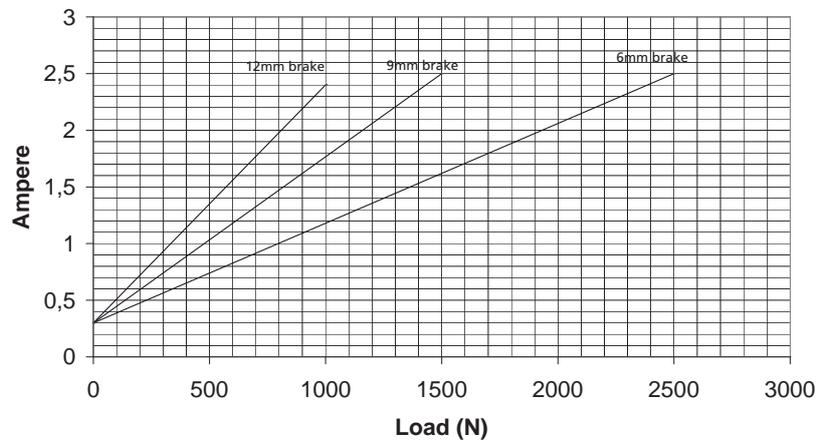


Drawing no.
LA31007B

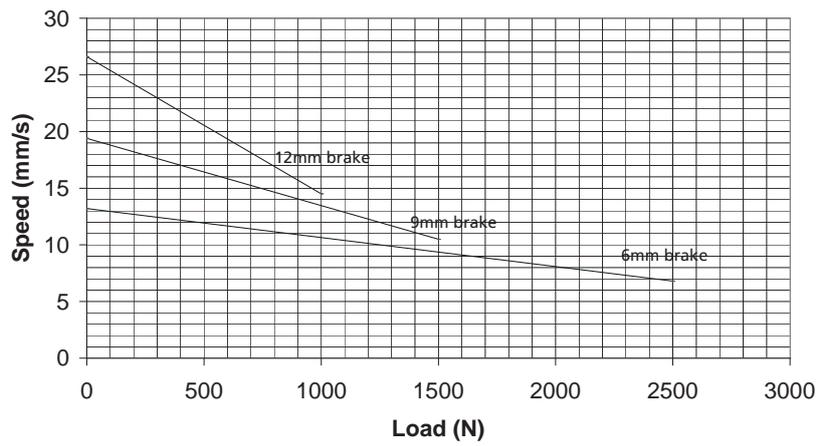
Drawing no.
LA31911A

Technical specification graphs:

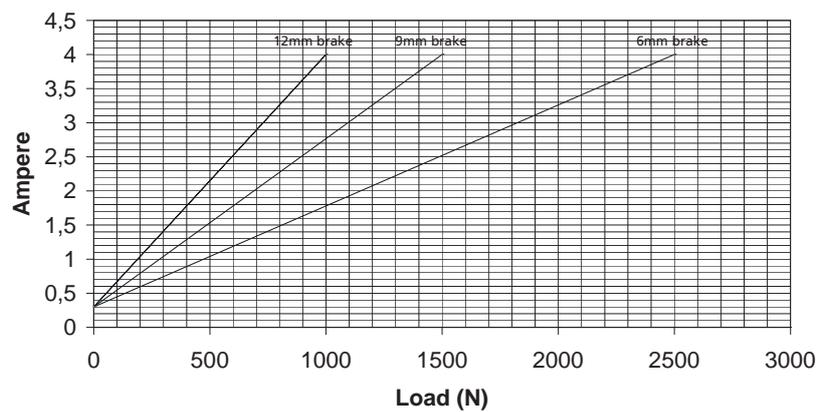
LA31 24V Std. motor current v's load



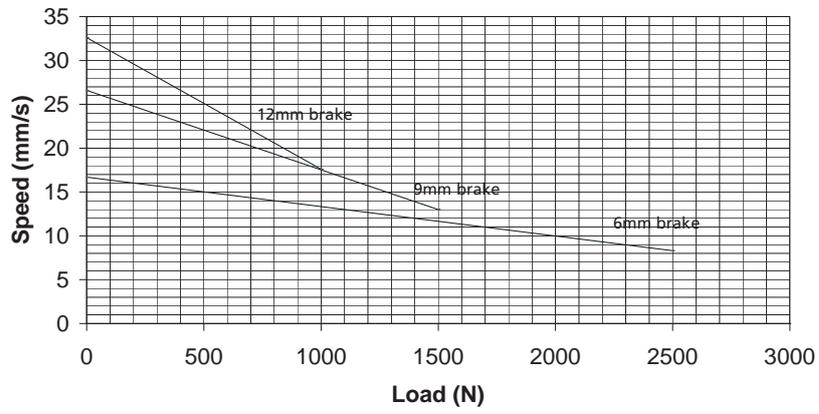
LA31 24V Std. motor speed v's load



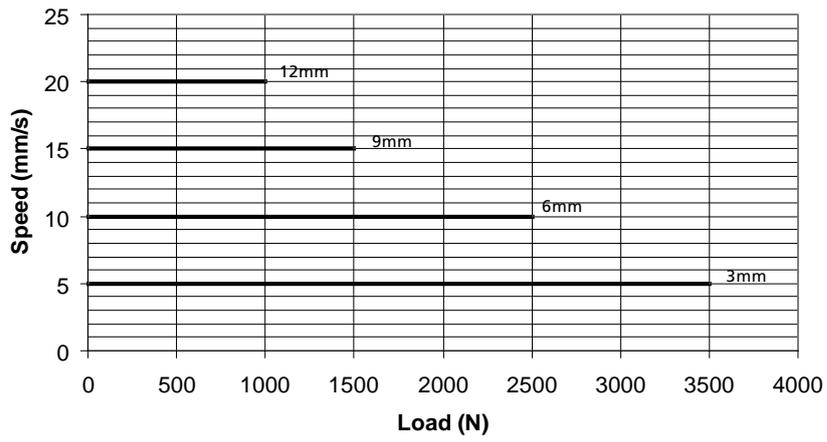
LA31 24V Fast motor double worm gear current v's load



LA31 24V Fast motor double worm gear speed v's load



LA31 12V motor with CBD4



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