



Actuator LA32

Data sheet

LA32

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)
- LA32KAS with ball screw and safety nut
- LA32KSM with ball screw, safety nut and mechanical splines
- Available with 0.2 m or 0.4 m coiled cable
- CS32; electronic limit switch (built-in)

Usage:

- Duty cycle: Max. 10% or 2 minutes continuous use followed by 18 min. not in use
- Ambient temperature +5 °C to +40 °C
- For use with LINAK control boxes CB8, CB12, CB14 and CS16 PCB or internal CS32 PCB
- Approvals: IEC 60601-1:2005, 3rd edition, ANSI / AAMI ES60601-1:2005, 3rd edition and CAN / CSA-22.2 No 60601-1:2008 approved

Accessories::

- CS16; electronic limit switch
- Optical encoder
- SLS: safety limit switch



Maximum load in pull = 2000N

Technical specifications:

Type	Spindle pitch (mm)	Thrust max. (N)	*Self-lock max. (N)	Stroke length							Typical speed 0/full load (mm/s)	Typical amp. 24V at full load (A)
				100 ^P	150 ^P	200 ^P	250 ^P	300 ^P	350	400		
321xxx+00xxx4xx	3	4000	4000	100 ^P	150 ^P	200 ^P	250 ^P	300 ^P	350	400	7 / 5.5	3.5
322xxx+00xxx4xx	6	3000	2000	100 ^P	150 ^P	200 ^P	250 ^P	300 ^P	350 ^P	400 ^P	13.8 / 13 (2000 N)	3 (2000 N)
322xxx+40xxx4xx	6	3000	3000	100 ^P	150 ^P	200 ^P	250 ^P	300 ^P	350 ^P	400	13.6 / 8.5	4.5
32Kxxx+x0xxx4xx	4	6000	6000	-	150 ^P	200 ^P	250 ^P	300 ^P	350	400	8.7 / 6.8	4.7
32Kxxx+10xxx4xx	4	6000	6000	-	150 ^P	200 ^P	250 ^P	300 ^P	350	400	8.7 / 6.8	4.7
32Kxxx+30xxx4xx	4	6000	6000	-	-	-	-	300 ^P	350	400	8.7 / 6.8	4.7

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.

P = Stroke lengths where potentiometer is possible as standard

* 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.

= Not with spindle potentiometer (stroke length max. 220 mm)

K = Ball screw

KAS = Ball screw with safety nut

KSM = Ball screw with splines and safety nut

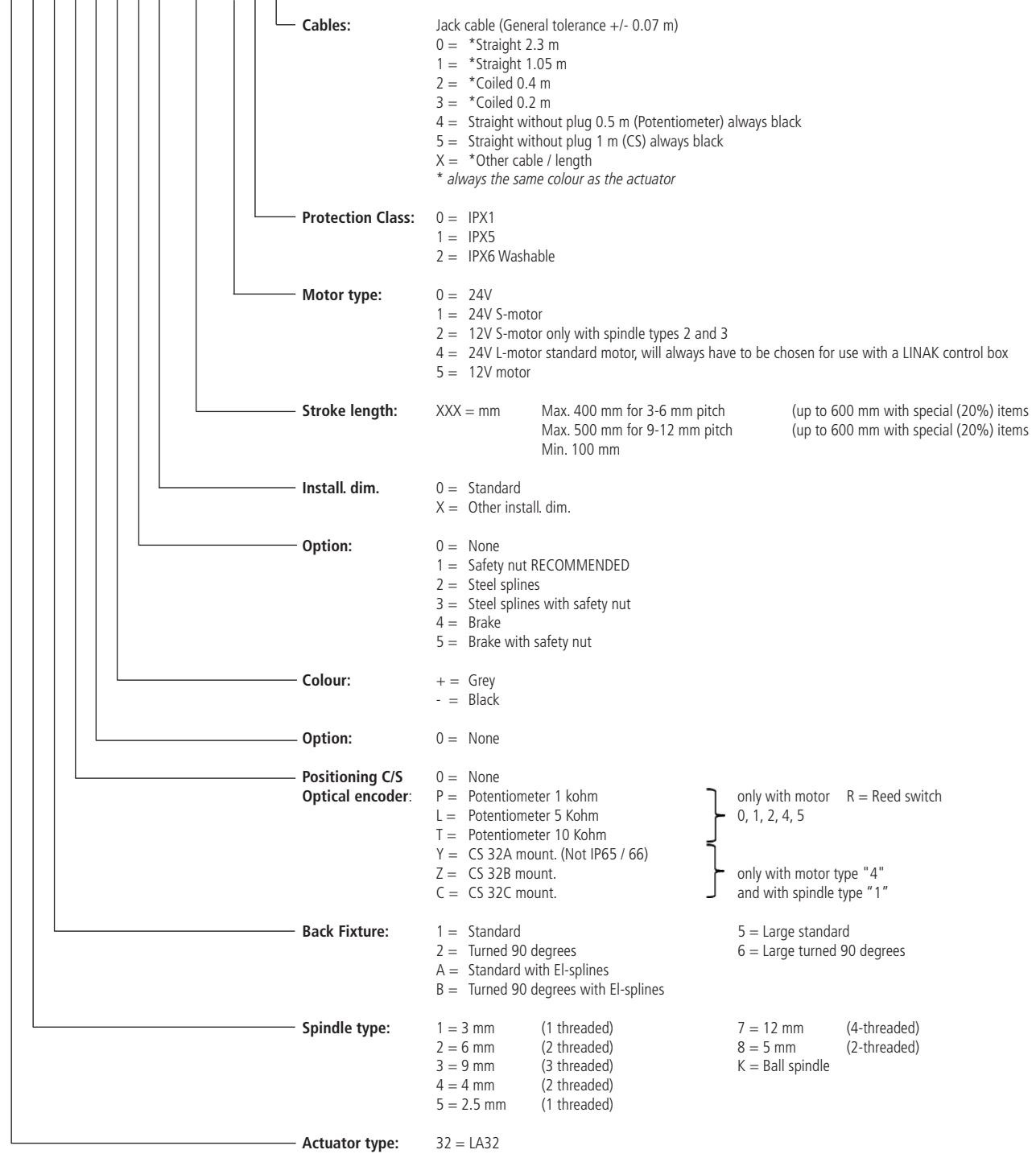
R = Reed-switch

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

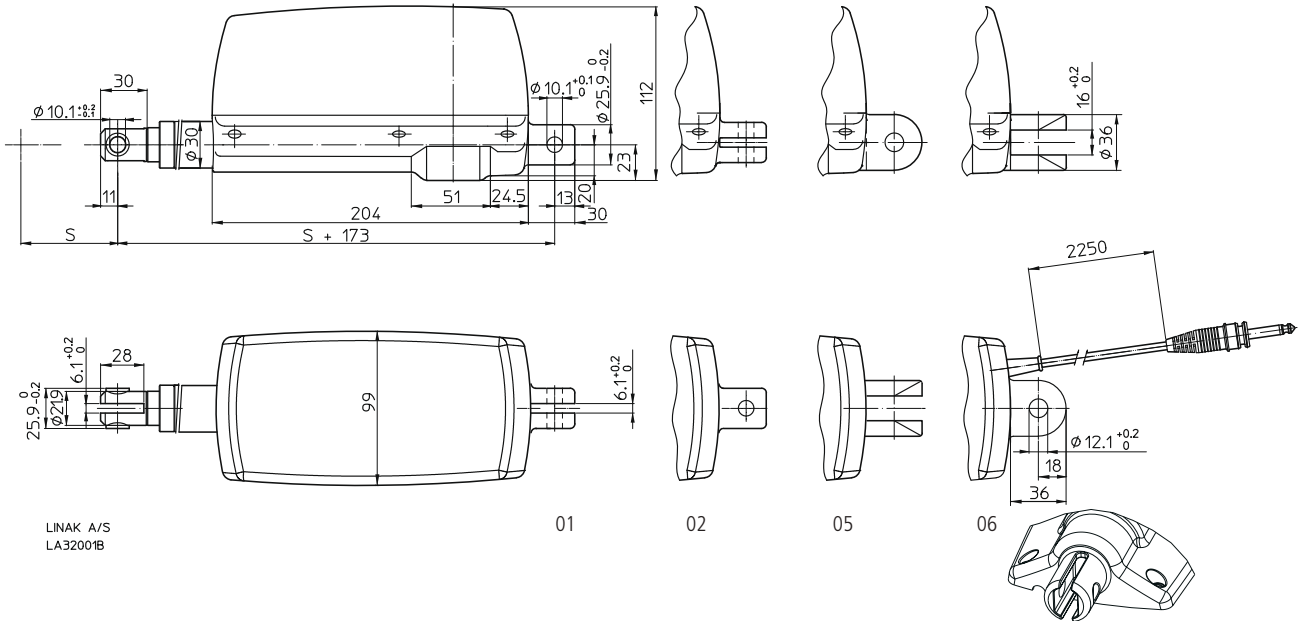
LA32

Ordering example:

32 1 1 0 0 + 1 0 2 5 0 4 0 0



Dimension:



LINAK A/S
LA32001B

01

02

05

06

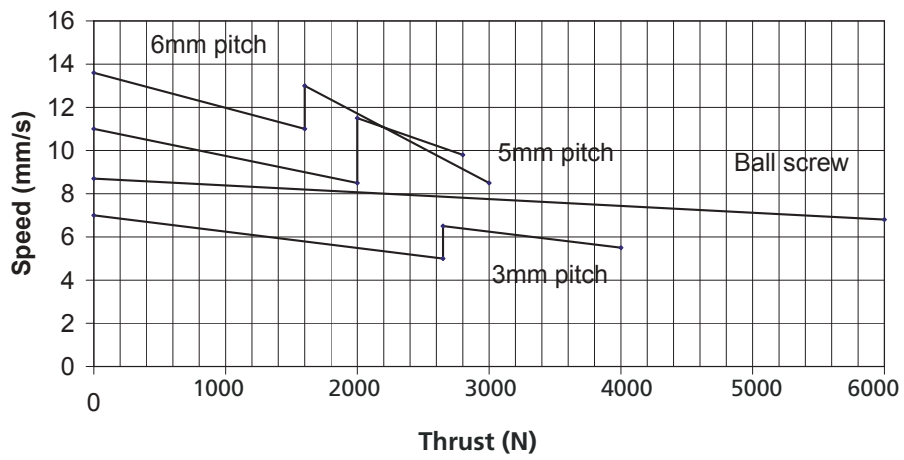
Installation dimensions:
(Min. install dim. 273 mm)

- S + 173: (with/without safety nut)
- S + 181: (LA323. 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

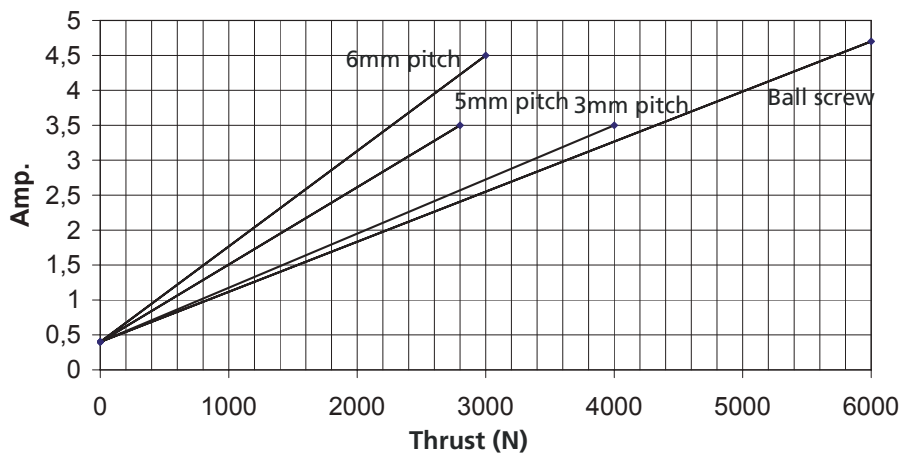
3D view of the back fixture.
(here type "01" is shown.
Drawing no.: 0321200

Graphs:

LA32 speed v's load



LA32 current v's load



Measurements are made in connection with a CB12

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