



Actuator LA30

Data sheet

LA30

LA30 is a powerful actuator yet small enough to fit most applications. The actuator can be supplied with options such as built-in potentiometer for servo operation or an extra powerful motor for increased speed and strength (S-motor). In addition to industrial and agricultural applications, the actuator is also ideal for positioning satellite dishes.



Features and options:

- 12/24V DC permanent magnet motor
- Max. thrust up to 6000 N (LA30LK)
- Stainless steel piston rod
- Elegant and compact construction with small installation dimensions
- Protection Class: IPX0/66
- Colour: Black
- Speed max. 65 mm/s (LA30 S-motor with 12 mm pitch)
- Low noise level
- Steel construction for all bearing parts
- Acme thread spindle for optimum efficiency
- Extra powerful motor (S-motor)
- L-motor for system actuator
- IP66 (by ordering LA30 with plastic housing)
- Double-acting brake - increased self-locking ability (LA30 with 6 or 9 mm pitch + LA30 S-motor with 6 or 9 mm pitch and LA30L) which ensures that all these types are fully self-locking
- Potentiometer for positioning the actuator: 0-10 K ohm
- Reed switch (only LA30 L-motor versions): 8 pulses pr. spindle revolution
- Mechanical spline function. Safety feature by using the mechanical spline, the actuator can only push
- Safety nut (only in push)
- Terminal cover (only LA30 L-motor versions)
- Ball screw (K) (only LA30 L-motor versions)
- Ball screw and safety nut (KAS) (only LA30 L-motor versions)
- Ball screw, safety nut and splines (KSM) (only LA30 L-motor versions)

Usage:

- Duty cycle: 10%, 2 minutes continuous use followed by 18 minutes not in use
- Ambient temperature +5° to +40°C
- Storage temperature -40° to +70°C
- Compatible with LINAK control boxes. Please contact LINAK.
- Approvals: IEC 60601-1, ANSI/AAMI ES60601-1 and CAN/CSA-22.2 No 60601-1

Technical specifications:

New type	Spindle pitch (mm)	Thrust max. Push (N)	Thrust max. Pull (N)	*Self-lock max. With/without brake (N)	Typical speed 0/full load (mm/s)	Stroke length (mm)								Typical amp. at full load	
						50	100	150	200P	250	300	350	400P	12V	24V
307xx0-4xxxx0/5xx	12	1000	1000	1000/0	48/24	50	100	150	200P	250	300	350	400P	14	7
303xx0-4xxxx0/5xx	9	1500	1500	1500/400	42/20	50	100	150P	200	250	300P	350	400	14	7
302xx0-4xxxx0/5xx	6	2000	2000	2000/500	18.5/14	50	100P	150	200P	250	300	350	400P	14	7
301xx0-xxxx0/5xx	3	3000	3000	3000/3000	16/9	50P	100P	150	200P	250	300	350	400	14	6.4
307xx0-4xxxx1/2xx	12	1000	1000	1000/0	65/35	50	100	150	200P	250	300	350	400P	20	10
303xx0-4xxxx1/2xx	9	1800	1800	1800/0	52/25	50	100	150P	200	250	300P	350	400	20	10
302xx0-4xxxx2xx	6	2000	2000	2000/500	34/20.3	50	100P	150	200P	250	300	350	400P	18	-
302xx0-4xxxx1xx	6	2400	2400	2400/500	34/20.3	50	100P	150	200P	250	300	350	400P		9
301xx0-xxxx1/2xx	3	3500	3000	3500/3500	17/9.5	50P	100P	150	200P	250	300	350	400	18	9
307xx0-4xxxx4xx	12	1000	1000	1000/0	26/20	50	100	150	200P	250	300	350	400P	-	2.5
303xx0-4xxxx4xx	9	2000	2000	2000/0	20/13	50	100	150P	200	250	300P	350	400	-	4.4
302xx0-4xxxx4xx	6	3000	3000	3000/2000	13.8/7	50	100P	150	200P	250	300	350	400P	-	4
301xx0-xxxx4xx	3	4000	3000	4000/4000	7/4.5	50P	100P	150	200P	250	300	350	400	-	5.5
30Kxx0-0xxxx4xx	4	6000	3000	6000/n/a	8.7/5.5	-	-	150	200	250	300	350	400	-	4.7
30Kxx0-1xxxx4xx	4	6000	3000	6000/n/a	8.7/5.5	-	-	150	200	250	300	350	400	-	4.7
30Kxx0-3xxxx4xx	4	6000	3000	6000/n/a	8.7/5.5	-	100	150	200	250	300	350	400	-	4.7

LA30

Ordering example:

30 1 1 0 0 - 1 0 2 5 0 0 0 0

- Cables:**
 - N = No cable when IPX0 (except reed) (no cable relief will be mounted)
 - 0 = Straight with jack plug, 2.30 m with IP-housing and 2.45 m without IP-housing
 - 1 = Straight with jack plug, 1.05 m with IP-housing and 1.20 m without IP-housing
 - 2 = Coiled with jack plug 400 mm
 - 3 = Coiled with jack plug 200 mm
 - 4 = Straight without plug 500 mm (Potentiometer)
 - 5 = Straight without plug 1200 mm (with IP66 housing)
 - X = Other cable / length

- Protection class:**
 - 0 = IPX0
 - 2 = IP66 with plastic house

- Motor:**
 - 0 = 24V
 - 1 = 24V S-motor 4 = 24V L-motor for LINAK control boxes
 - 2 = 12V S-motor 5 = 12V motor

- Stroke length:**
 - XXX = mm
 - Max. with 3 & 6 mm pitch 400 mm
 - Max. with 9 & 12 mm pitch 500 mm
 - Min. 50 mm

- Install. dim.:**
 - 0 = Standard
 - X = Other installation dimension

- Options:**
 - 1 = Safety nut RECOMMENDED
 - 0 = None
 - 4 = Brake (not optional with K spindle)
 - 5 = Brake with safety nut (not optional with K spindle)

- Colour:**
 - = Black

- Options:**
 - 0 = None
 - 1 = LSD (Factory installed, not IPX6 max. IPX4)
 - 2 = LS (Separately, for customer assembly, not IPX6 max. IPX4)

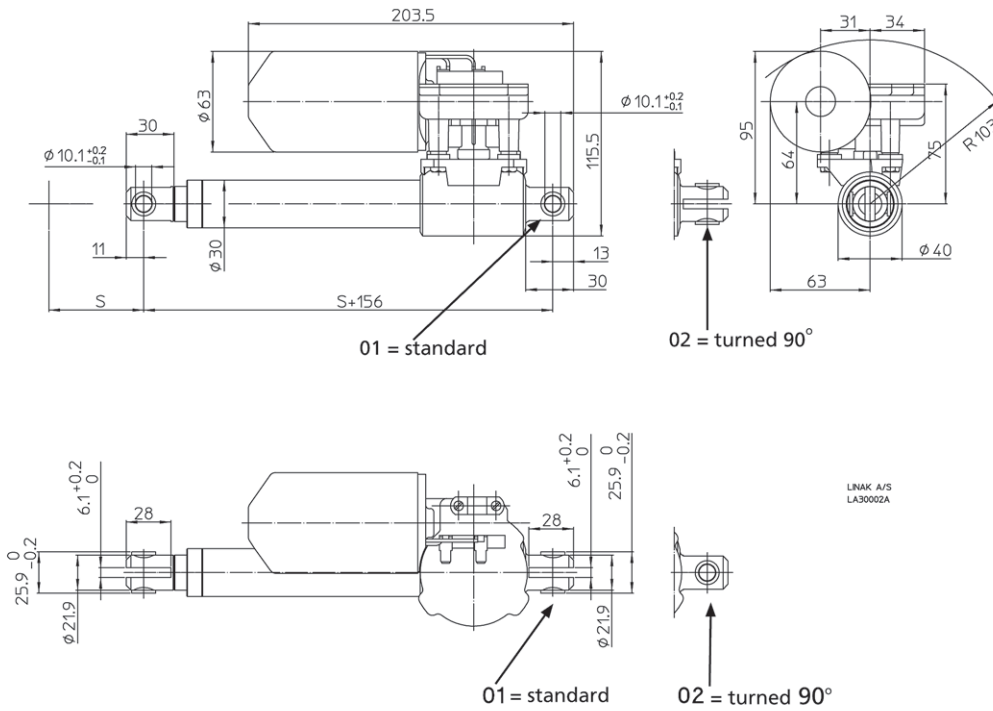
- Options:**
 - 0 = None
 - T = Potentiometer 10 Kohm } only with motor 0, 1, 2, 4, 5
 - R = Reed switch } only with motor 4

- Back fixture:**
 - 1 = Standard (01)
 - 2 = Turned 90° (02)

- Spindle type:**
 - 1 = 3 mm (1-thread) Old type no. LA30.1
 - 2 = 6 mm (2 thread) LA30.2
 - 3 = 9 mm (3-thread) LA30.3
 - 7 = 12 mm (4-thread) LA30.4
 - K = Ball spindle LA30K
 - (K spindle is always with brake)

- Actuator type:** LA30

Dimensions:



Installation dimension:

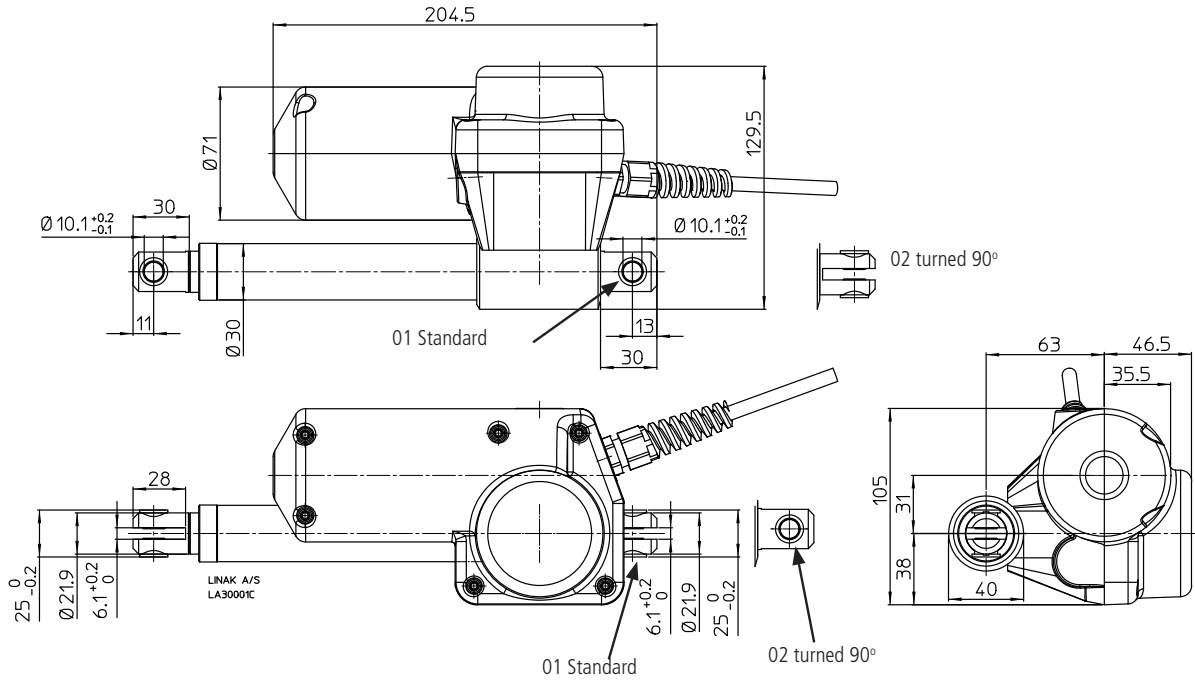
LA30 L-motor + LA30 + LA30 S-motor with 3 or 6 mm pitch	S + 156 mm
LA30 with spline + LA30 S-motor with 9 mm pitch	S + 167 mm
LA30 with brake + LA30 S-motor with 3 or 6 mm pitch with brake	S + 189 mm
LA30 with ball screw and L-motor / LA30 ball screw and safety nut	S + 194 mm
LA30 L-motor with brake + LA30 S-motor 9 or 12 mm pitch with brake	S + 199 mm
LA30 L-motor with ball screw, safety nut and spline	S + 251 mm

Plastic housing for LA30:

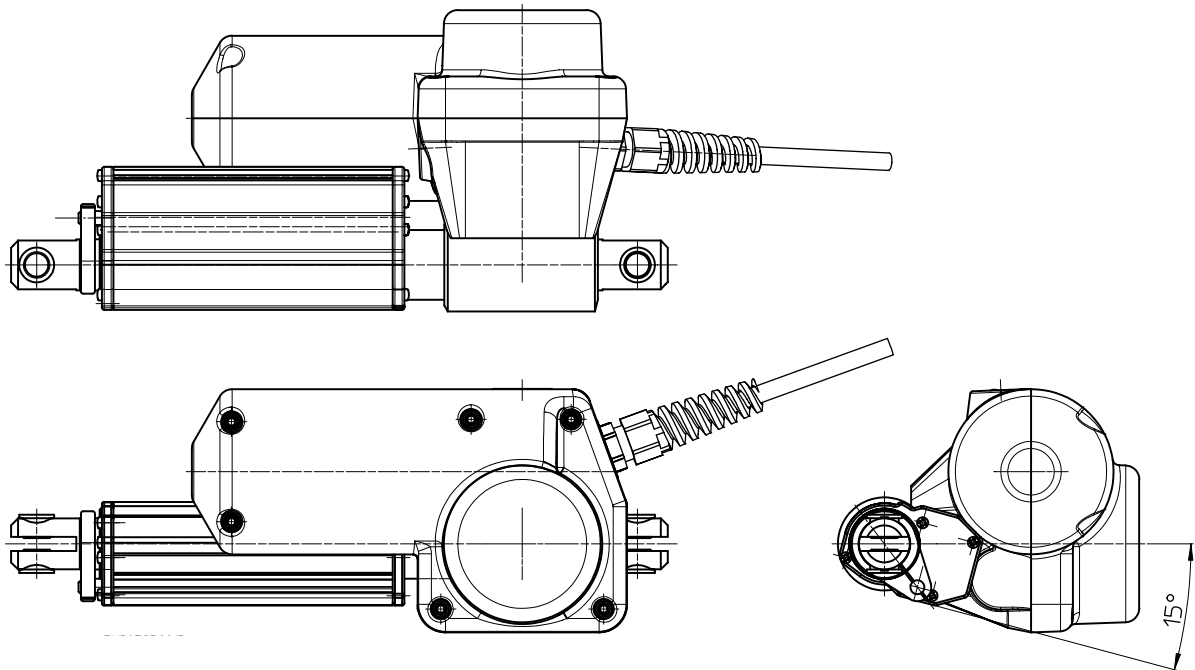
It is possible to order a LA30 with the protection class IP66. This option requires a plastic housing. See drawings below.

The LA30 actuator is mounted with a 1.2 m / 0.5 m cable without plug.

Dimensions:

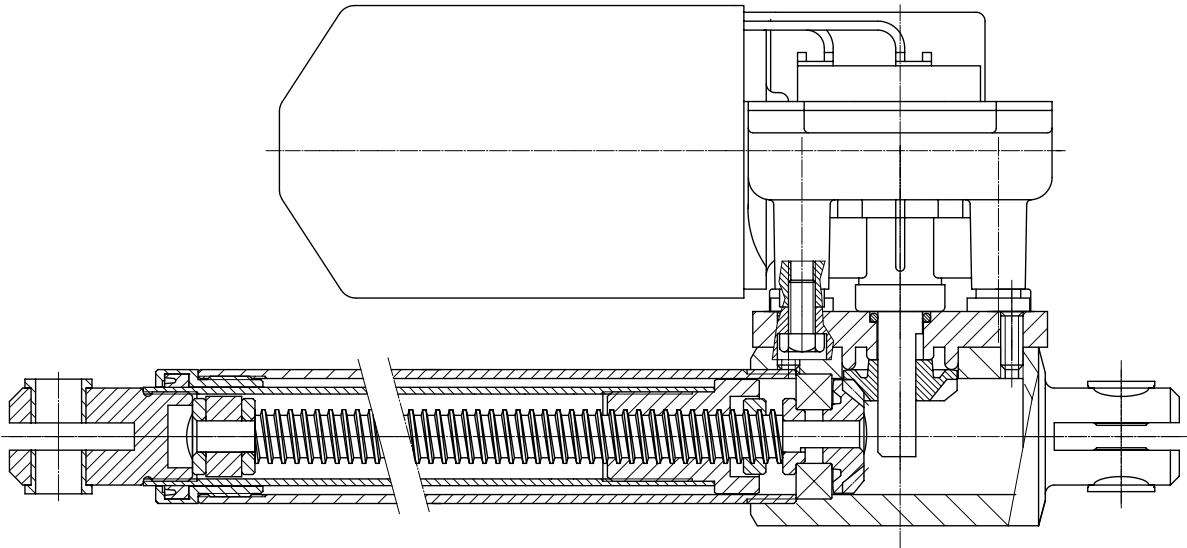


LA30 with housing mounted with LSD (protection class IPX4):



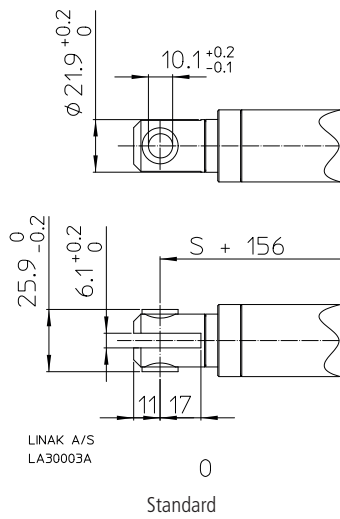
Drawing no.: LA30LSD001B

LA30 Standard:

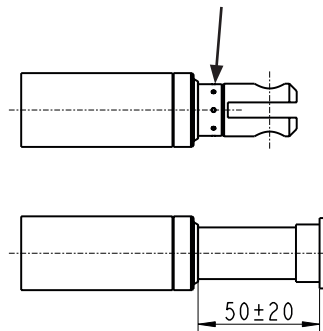


Drawing no.: LA30SNIT001B

Piston Rod eyes:



"Crimped" piston rod eye



Piston rod without eye
(Piston rods without eyes are not tested)

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