



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 0-1 K ohm, 0-5 K ohm or 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 control boxes CB8, CB12,
- Approvals: IEC 60601-1, ANSI/AAMI ES60601-1 and CAN/CSA-22.2 No 60601-1
- Should LA30 be used with a non LINAK control unit, please ask the nearest LINAK representative for further details

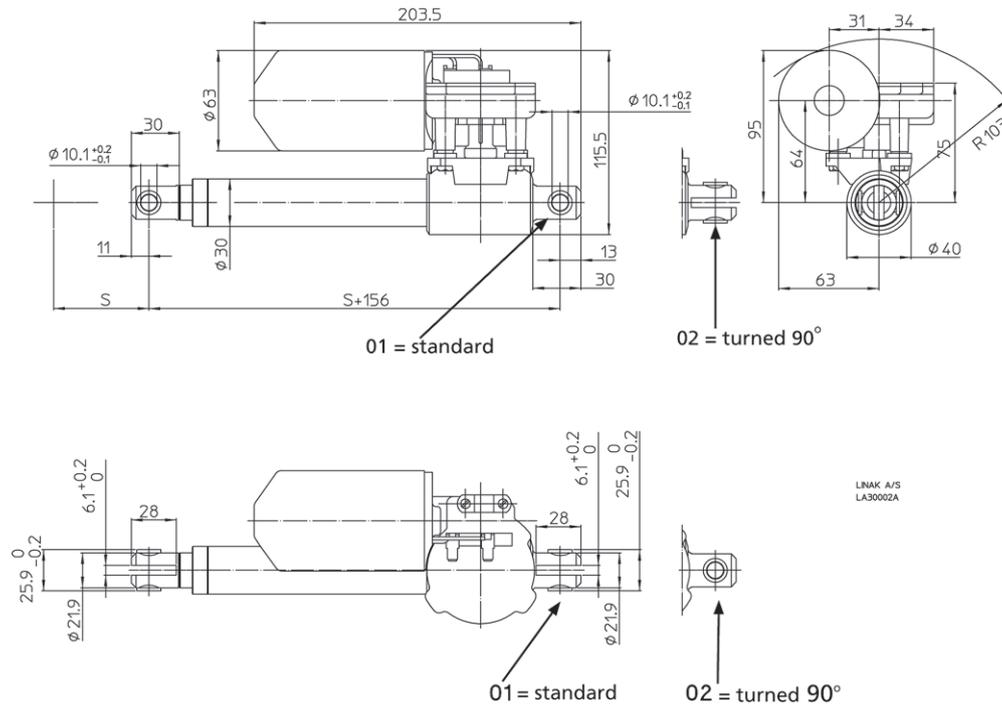
Technical specifications:

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 12V 24V	
						50	100	150	200P	250	300	350	400P	14	7
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

The above measurements are made with the actuators connected to a stable power supply, LA30 L-motor versions with a CB12.

S = Strong motor; L = Slow motor; K = Ball screw; KAS = Ball screw, safety nut; KSM = Ball screw, safety nut, spline.

Dimensions:



Installation dimension:

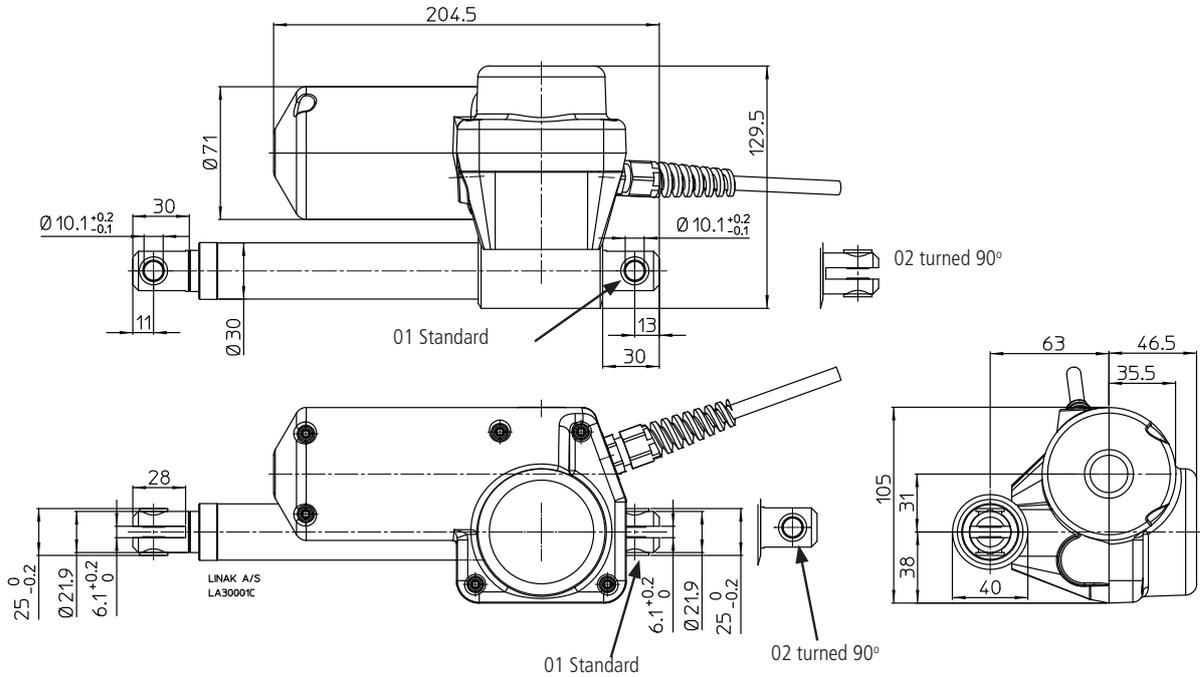
LA30 L-motor + LA30 + LA30 S-motor with 3 or 6 mm pitch	S + 156 mm
LA30 with spline + LA30 S-motor with 9 mm pitch	S + 167 mm
LA30 with brake + LA30 S-motor with 3 or 6 mm pitch with brake	S + 189 mm
LA30 with ball screw and L-motor / LA30 ball screw and safety nut	S + 194 mm
LA30 L-motor with brake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

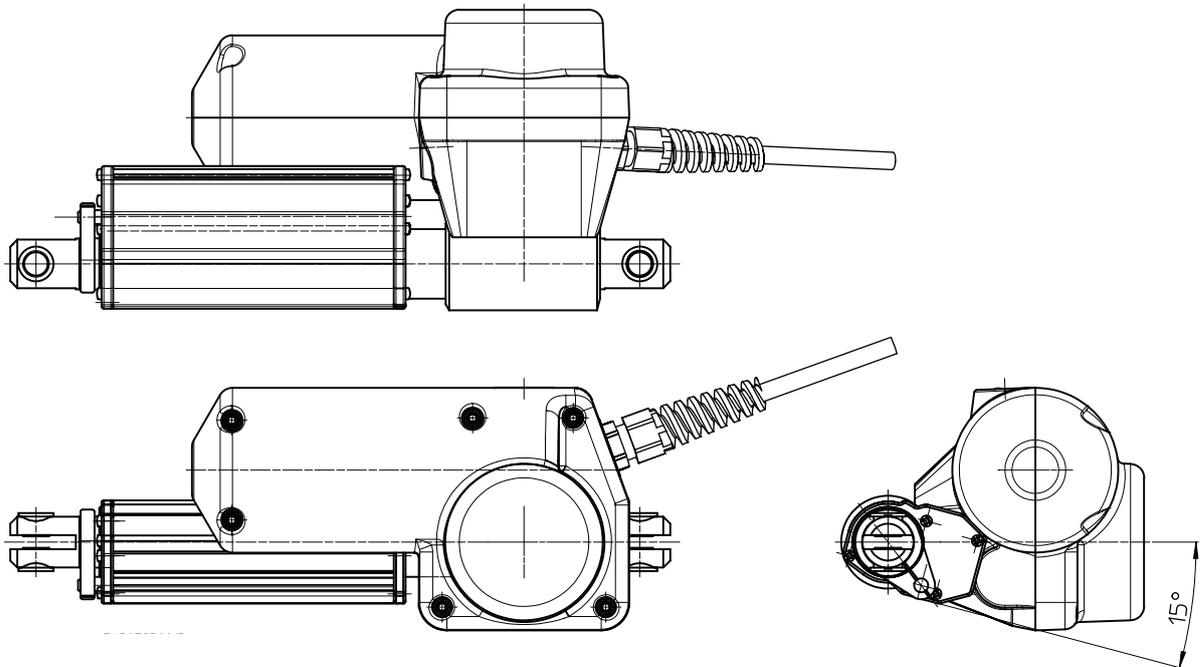
It is possible to order a LA30 with the protection class IP66. This option requires a plastic housing. See drawings below.

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

Dimensions:

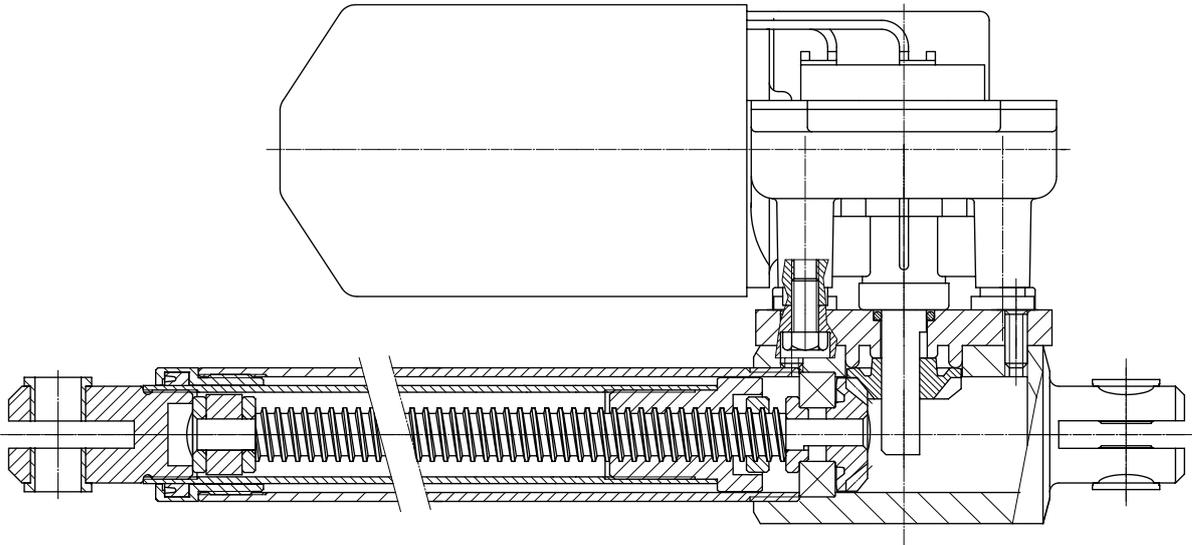


LA30 with housing mounted with LSD (protection class IPX4):



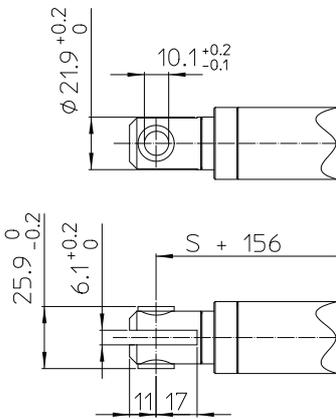
Drawing no.: LA30LSD001B

LA30 Standard:



Drawing no.: LA30SNIT001B

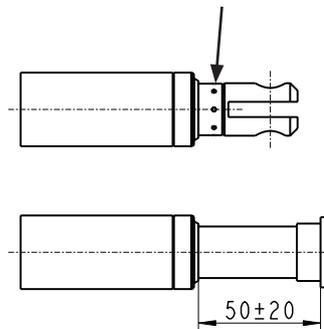
Piston Rod eyes:



LINAK A/S
LA30003A

0
Standard

"Crimped" piston rod eye



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

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