

Actuator LA28

Data Sheet



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Introduction

LA28 is primarily a system actuator. The actuator is very quiet and powerful, designed for use in the CARELINE®, MEDLINE® and TECHLINE® areas of business.

Features and options

- Load up to 3500 N in push (with S-motor)
- Dynamic push and pull: Actuators are designed for push or pull applications. If a combination is required, please contact your local LINAK salesperson.
- Protection class IP 51
- Storage temperature -40 °C to 70 °C
- Available with extra powerful motor(strong motor), increases speed and strength
- Brake - increases self-locking ability for LA28 actuators with 6 or 9 mm pitch with or without strong motor
- Protection class: IPX5 or IPX6
- Noise level unloaded is ≤ 45 dB(A) for standard motor and ≤ 54 dB(A) for S-motor
- Reed-switch (LA28 = 8 pulses/spindle rev. and LA28 with strong motor = 6 pulses/spindle rev.)
- Splines function (the actuator can only push)
- Mounting bracket for CB8-T/A control boxes (order number 914078 (grey) and 914054 (black))
- Safety nut for LA28 with 3, 6 or 9 mm pitch 0.2 m and 0.4 m coiled cable
- Built-in CS print ensures electronic overload protection, see chapter 10.3 (not to be used in connection with LINAK control boxes).

Usage

- Duty cycle: Max. 10 % or 2 min. continuous use followed by 18 min. not in use.
- Ambient temperatures: +5° to +40°C
- Compatibility: 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

LA28 with standard motor

Order number	Push max. (N)	Pull max. (N)	*Self-lock max. (N) Push	*Self-lock max. (N) Pull	Pitch (mm/spindle rev.)	Typical speed (mm/s)		Standard stroke lengths (mm) In steps of 50mm.	Typical amp.	
						Load			12V	24V
						no	full			
286xxx-xxxxx0xx	2500	2000	2000	2000	2	4.2	3.0	100-400	-	1.5
285xxx-xxxxx0xx	2000	2000	2000	2000	2.5	5.3	4.0	100-400	-	1.6
281xxx-xxxxx0xx	2000	2000	2000	2000	3	7.0	4.8	100-400	-	1.5
284xxx-xxxxx0xx	1500	1500	1500	1500	4	9.5	6.7	100-400	-	1.6
284xxx-4xxxx0xx	1500	1500	1500	1500	4	9.5	6.7	100-400	-	1.6
282xxx-xxxxx0xx	1000	1000	500	500	6	14.3	9.6	100-400	-	1.5
282xxx-4xxxx0xx	1000	1000	1000	1000	6	12.7	9.6	100-400	-	1.5
283xxx-xxxxx0xx	800	800	200	200	9	21.1	14.5	100-600	-	1.5
283xxx-4xxxx0xx	800	800	800	800	9	20.9	10.7	100-600	-	2.4
287xxx-xxxxx0xx	600	600	0	0	12	25.8	17.1	100-600	-	1.9
287xxx-4xxxx0xx	600	600	300	300	12	24.8	15.1	100-600	-	1.9

LA28 with "S" motor

Order number	Push max. (N)	Pull max. (N)	*Self- lock max. (N) Push	*Self- lock max. (N) Pull	Pitch (mm/ spindle rev.)	Typical speed (mm/s)		Standard stroke lengths (mm) In steps of 50mm.	Typical amp.	
						Load			12V	24V
						no	full			
286xxx-xxxxx1xx	3500	2000	3500	2000	2	6.7	4.7	100-400	-	3.9
285xxx-xxxxx1xx	3000	2000	3000	2000	2.5	8.6	6.1	100-400	-	3.6
281xxx-xxxxx1xx	2000	2000	2000	2000	3	10.8	8.4	100-400	-	2.9
284xxx-xxxxx1xx	2000	2000	1200	1200	4	14.6	10.3	100-400	-	3.6
284xxx-4xxxx1xx	2000	2000	2000	2000	4	14.3	10.3	100-400	-	3.4
282xxx-xxxxx1xx	2000	2000	500	500	6	22.0	13.8	100-400	-	4.1
282xxx-4xxxx1xx	2000	2000	2000	2000	6	22.0	12.7	100-400	-	4.6
283xxx-xxxxx1xx	1500	1500	500	500	9	34.2	16.5	100-600	-	4.9
283xxx-4xxxx1xx	1500	1500	1500	1500	9	33.0	10.9	100-600	-	5.5
287xxx-xxxxx1xx	800	800	0	0	12	46.0	33.5	100-600	-	3.1
287xxx-4xxxx1xx	800	800	800	800	12	45.9	33.5	100-600	-	3.1

LA28 with 12V motor

Order number	Push max. (N)	Pull max. (N)	*Self-lock max. (N) Push	*Self-lock max. (N) Pull	Pitch (mm/spindle rev.)	Typical speed (mm/s) Load		Standard stroke lengths (mm) In steps of 50mm.	Typical amp.	
						no	full		12V	24V
286xxx-xxxxx2xx	3000	2000	2000	2000	2	7.0	3.2	100-400	6.9	-
286xxx-4xxxx2xx	3000	2000	3000	2000	2	7.0	3.2	100-400	6.9	-
285xxx-xxxxx2xx	3000	2000	2000	2000	2.5	8.6	3.6	100-400	6.6	-
285xxx-4xxxx2xx	3000	2000	3000	2000	2.5	8.6	3.6	100-400	6.6	-
281xxx-xxxxx2xx	2000	2000	2000	2000	3	10.2	6.2	100-400	6.9	-
284xxx-xxxxx2xx	2000	2000	1500	1500	4	13.5	6.8	100-400	6.5	-
284xxx-4xxxx2xx	2000	2000	2000	2000	4	13.3	7.5	100-400	6.5	-
282xxx-xxxxx2xx	2000	2000	500	500	6	19.9	7.5	100-400	7.7	-
282xxx-4xxxx2xx	2000	2000	2000	2000	6	19.8	7.0	100-400	8.5	-
283xxx-xxxxx2xx	1500	1500	0	0	9	28.9	11.7	100-600	7.9	-
283xxx-4xxxx2xx	1500	1500	1500	1500	9	28.9	11.7	100-600	7.9	-
287xxx-xxxxx2xx	800	800	0	0	12	32.0	16.0	100-600	5.9	-
287xxx-4xxxx2xx	800	800	800	800	12	32.0	16.0	100-600	5.9	-

The measurements are made with the actuators connected to a stable power supply.

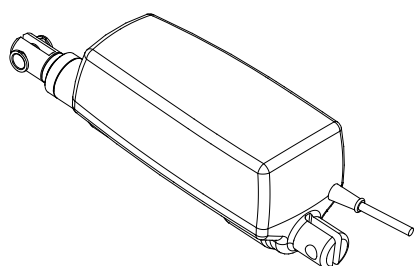
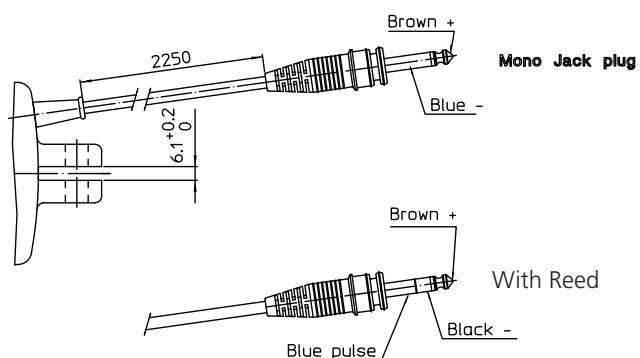
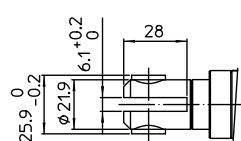
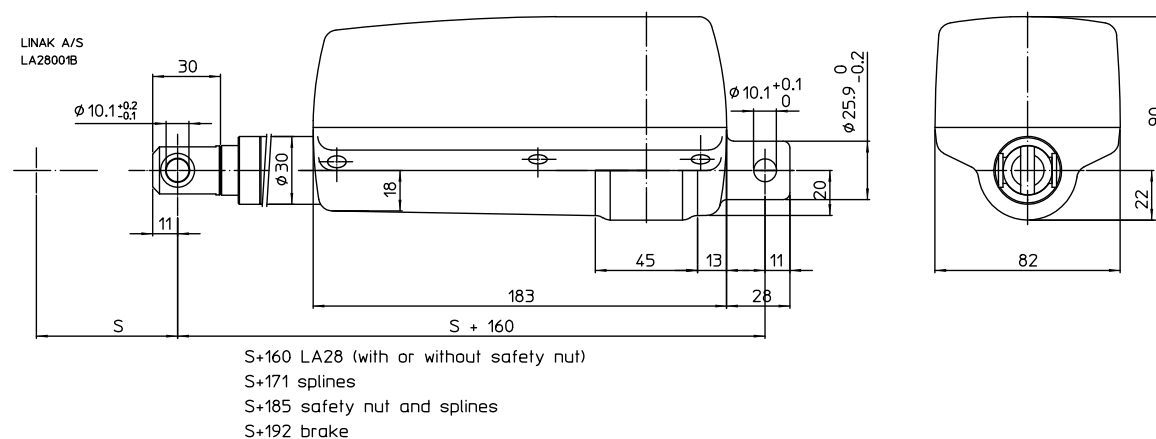
A reed-switch has no influence on above mentioned data.

Ordering example

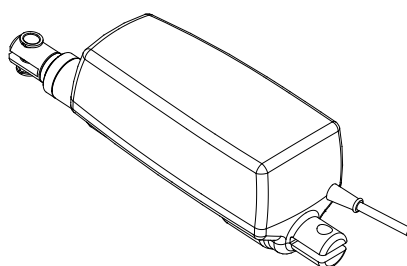
The diagram shows a 28-pin connector with the following labels and options:

- Cables:**
 - 0 = Straight 2.38m
 - 0 = Straight 2.4m with reed
 - 1 = Straight 1.13 m
 - 1 = Straight 1.09m with reed
 - 2 = Coiled 0.4
 - 3 = Coiled 0.2
 - 4 = Cable without plug 1.5m
 - 5 = Cable without plug 1.0m
 - X = Other cable/ Length
- IP-Degree:**
 - 0 = IPX1
 - 1 = IPX5
 - 2 = IPX6
- Motor type:**
 - 0 = 24V
 - 1 = 24V S-motor
 - 2 = 12V S-motor (Cable without plug L=1.5m)
- Stroke length**
 - XXX = mm Max 500mm (for 600mm kontakt LINAK A/S)
 - Min 100mm
- Inst. Dim.:**
 - 0 = Standard
 - X = Other inst. dimension
- Option:**
 - 1 = Safety nut **RECOMMENDED**
 - 0 = None
 - 2 = Steel Splines
 - 3 = Steel Splines with safety nut
 - 4 = Brake
 - 5 = Brake with safety nut
- Colour:**
 - + = grey
 - = black
- Option:**
 - 0 = None
- Pos./CS:**
 - 0 = None
 - R = Reed switch
 - Y = CS 28A mount. (without plug 1.0m)(not IP65/66)
 - Z = CS 28B mount. (Without plug 1.0m Handset cable only in black)
 - C = CS 28C mount. (Without plug 1.0m 5-core Cable only in black)
- Back fixture:**
 - 1 = Standard
 - 2 = Turned 90 degrees
- Spindle type:**
 - 1 = 3 mm (1 threaded) (3mm pitch)
 - 2 = 6 mm (2 threaded) (6mm pitch)
 - 3 = 9 mm (3 threaded) (9mm pitch)
 - 4 = 4 mm (2 threaded) (4mm pitch)
 - 5 = 2,5 mm (1 threaded) (2.5mm pitch)
 - 6 = 2 mm (1 threaded) (2mm pitch)
 - 7 = 12 mm (4 threaded) (12mm pitch)
- Actuator type**
 - 28 = LA28

Dimensions



Back fixture 01



Back fixture 02

Drawing no. 028745

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