

ACTUATOR LA28

Features:

- Thrust up to 3500N (with strong motor)
- Duty cycle: Max 10 % or 2min. continuous use followed by 18 min. not in use.
- Ambient temperatures: +5° to +40°C
- Protection class IP 51
- For 24 V versions straight or coiled cable with 6.3 m jack-plug
- Storage temperature -40°C to 70°C
- LA28 is approved according to EN 60601-1 / UL 60601-1 in connection with CB8, CB12, CB14, CB18 and CBJ.

Options:

- 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: IP65 or IP66
- 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 CB08-T/A control boxes (order number 914078 (grey) and 914054 (black))
- Safety nut for LA28 with 3, 6 or 9 mm pitch/spindle rev. (push direction)
- 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:

- Should LA28 be used with a non LINAK control unit, please ask the nearest LINAK representative for further details.



MEDLINE™
IMPROVING EFFICIENCY
CARELINE™
IMPROVING EFFICIENCY
TECHLINE™
IMPROVING FLEXIBILITY

LA28 is primarily a system actuator. The actuator is very quiet and powerful designed for use in the furniture, rehabilitation and hospital bed line of businesses.

The actuator is also ideal for use in agricultural machinery and for a wide range of industrial applications.

LA28 with standard motor

Technical specifications:

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)	Typical amp. (A)		
						Load			In steps of 50 mm	12 V	24 V
						no	full				
286XXX-XXXXX0XX	2500	2500	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	1000	1000	1000	1000	9	20,9	10,7	100 – 600	-	2,4	
287XXX-XXXXX0XX	800	800	0	0	12	25,8	17,1	100 – 600	-	1,9	
287XXX-XXXXX0XX	800	800	800	800	12	25,8	17,1	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)	Typical amp. (A)		
						Load			In steps of 50 mm	12 V	24 V
						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	-	6,5	
287XXX-XXXXX1XX	800	800	0	0	12	46,0	33,5	100 – 600	-	3,1	
287XXX-XXXXX1XX	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) Pus	*Self-lock max. (N) Pull	Pitch (mm/spindle rev.)	Typical speed (mm/s)		Standard stroke lengths (mm) In steps of 50 mm	Typical amp. (A)	
						Load			12 V	24 V
						No	Full			
286XXX-XXXXX2XX	3500	2000	2000	2000	2	7,0	3,2	100 – 400	6,9	-
285XXX-XXXXX2XX	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	4,9	-
284XXX-XXXXX2XX	2000	2000	1500	1500	4	13,5	6,8	100 – 400	6,5	-
284XXX-4XXXX2XX	2000	2000	2000	2000	4	13,3	6,7	100 – 400	6,5	-
282XXX-XXXXX2XX	2000	2000	500	500	6	19,9	8,2	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	26,5	2,8	100 – 600	11,6	-
287XXX-XXXXX2XX	800	800	800	800	12	39,7	22,7	100 – 600	5,9	-

Above data: the measurements are made with the actuators connected to a stable power supply.

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



Precautions:

- The maximum load in pull is 2000N.
- LINAK control boxes are designed so that they will short-circuit the motor terminals 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 enable self-locking of the actuator.
- Min. stroke length for LA28 with splines is 80 mm
- The current supply to LINAK actuators must be cut off in case of overload and when the actuators reach end position.
- Ambient operating temperature is 22°C.

Further information:

Noise level:

- LA28: dB(A) 45; measuring method DS/EN ISO 3746, actuator not loaded
- LA28S: dB(A) 48; measuring method DS/EN ISO 3746, actuator not loaded

Material:

- Piston rod eye pressed, no glue used

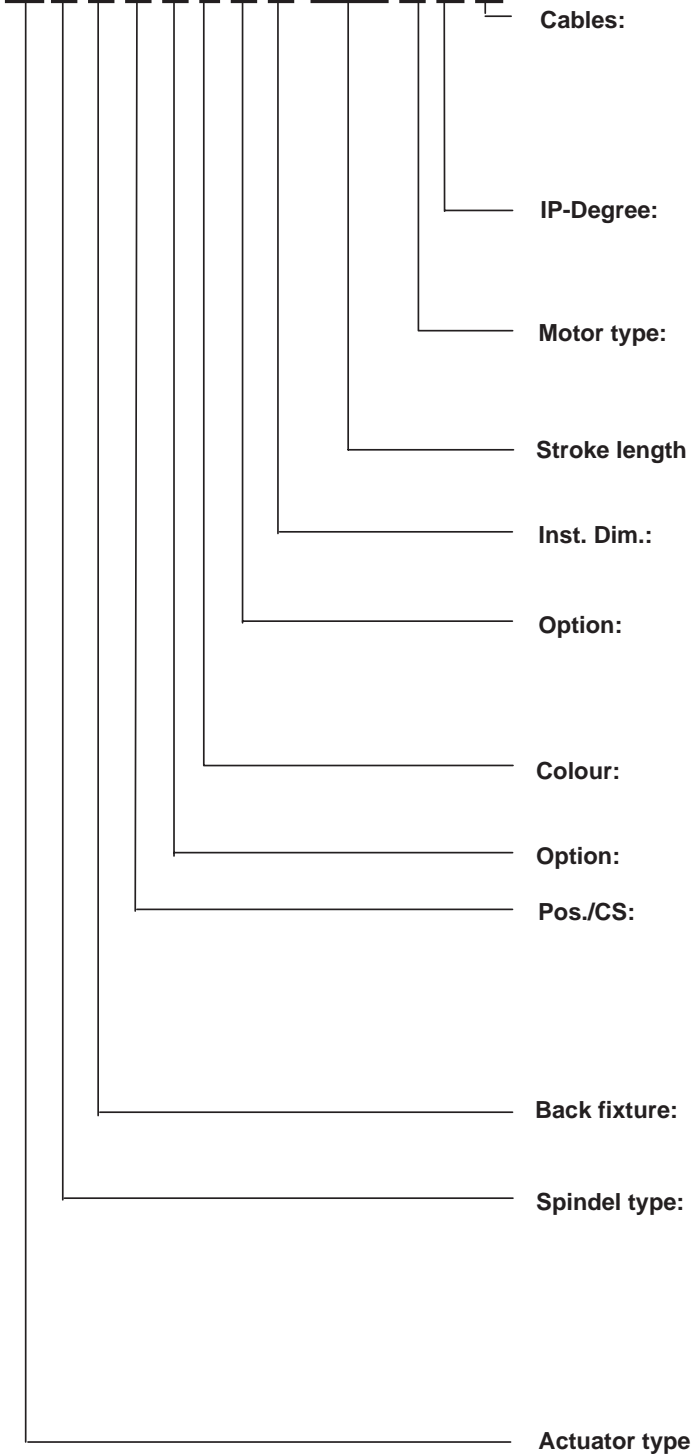
Accessories:

- CS16 electronic limit switch
- CS28 electronic limit switch (built-in)
- SLS safety limit switch

LA28

Ordering example:

28 1 1 0 0 + 0 0 2 5 0 0 0 0



Jack cables

- 0= Straight 2.3m** 4= Cable without plug 1,5m
- 1= Straight 1.05 m 5= Cable without plug 1,0m
- 2= Coiled 0.4
- 3= Coiled 0.2 X= Other cable/ Length

0 = IP51

- 1 = IP65
- 2 = IP66

0 = 24V

- 1 = 24V S-motor
- 2 = 12V S-motor (Cable without plug L=1,5m)

XXX = mm Max 500mm
 Min 100mm

0 = Standard

X = Other inst. dimension

0 = None

- 1 = Safety nut 4 = Brake
- 2 = Steel Splines 5 = Brake with safety nut
- 3 = Steel Splines with safety nut

+ = grey

- = black

0 = None

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)

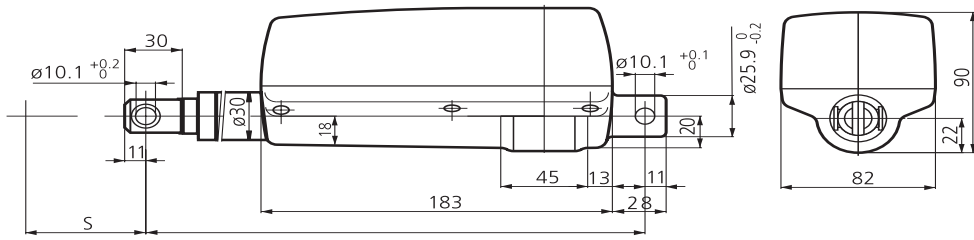
1 = Standard

- 2 = Turned 90 degrees

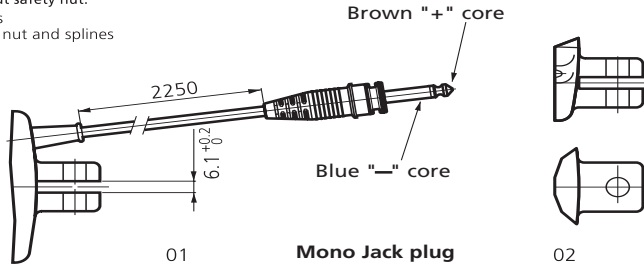
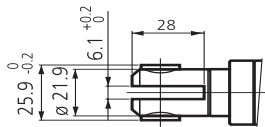
- 1 = 3 mm (1 threaded)
- 2 = 6 mm (2 threaded)
- 3 = 9 mm (3 threaded)
- 4 = 4 mm (2 threaded)
- 5 = 2,5 mm (1 threaded)
- 6 = 2 mm (1 threaded)
- 7 = 12 mm (4 threaded)

28 = LA28

Dimensions:

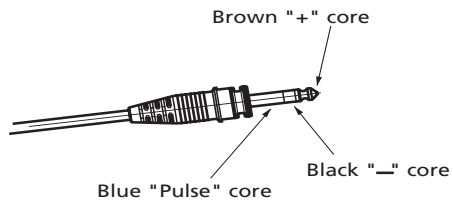


S + 160 LA28 (3 or 6 mm pitch) and LA28 strong motor
(with or without safety nut.
S + 171 splines
S + 185 safety nut and splines
S + 192 brake



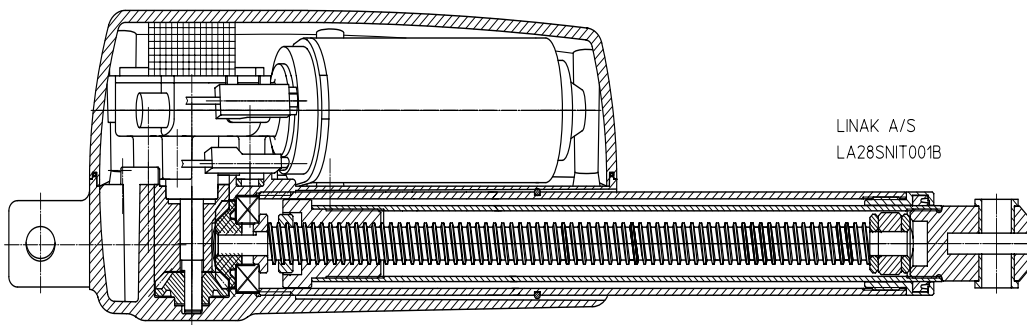
Mono Jack plug

LINAK A/S
LA28001A



Stereo Jack plug

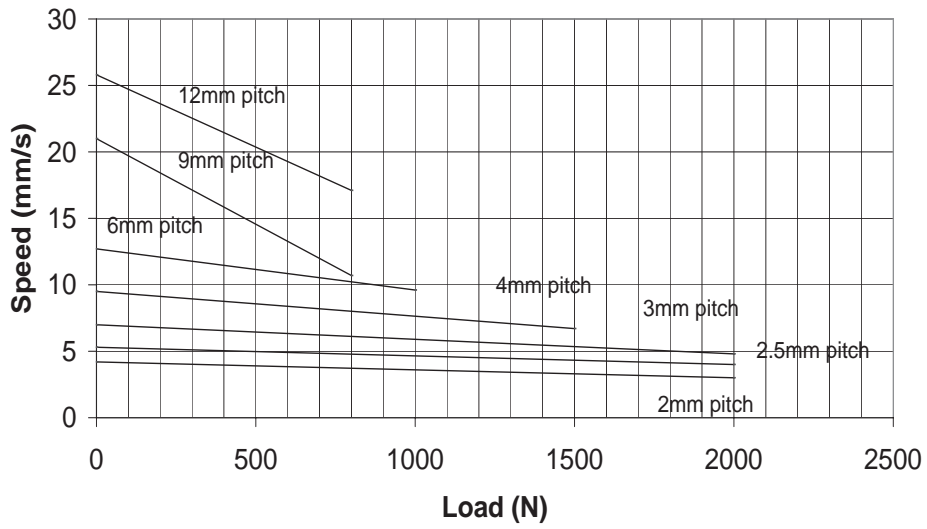
Section drawing:



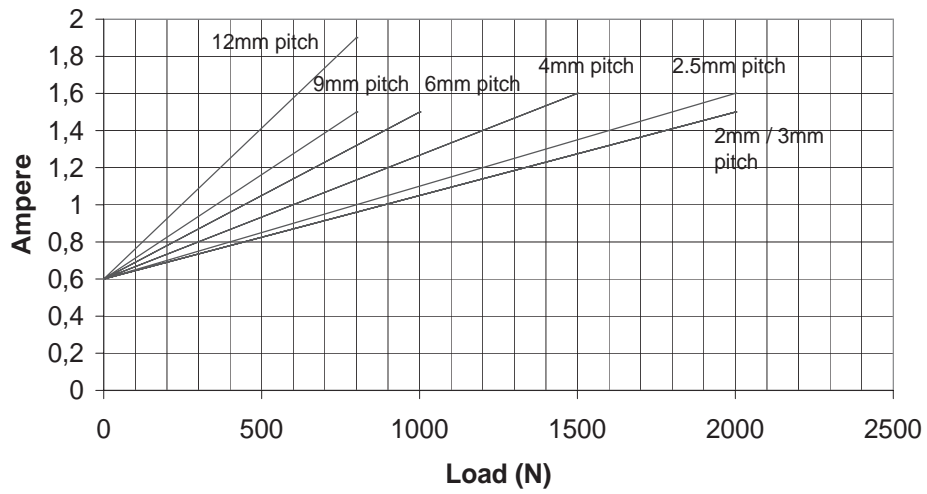
LINAK A/S
LA28SNIT001B

Curves:

LA28 std motor speed v's load

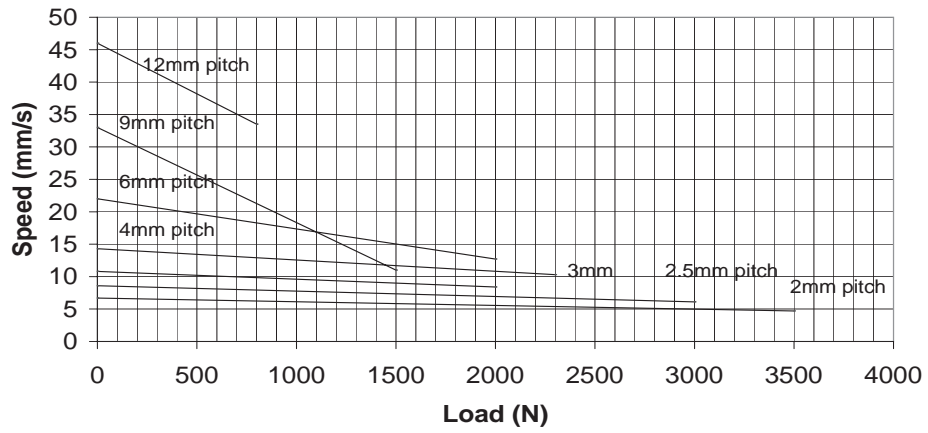


LA28 standard motor current v's load

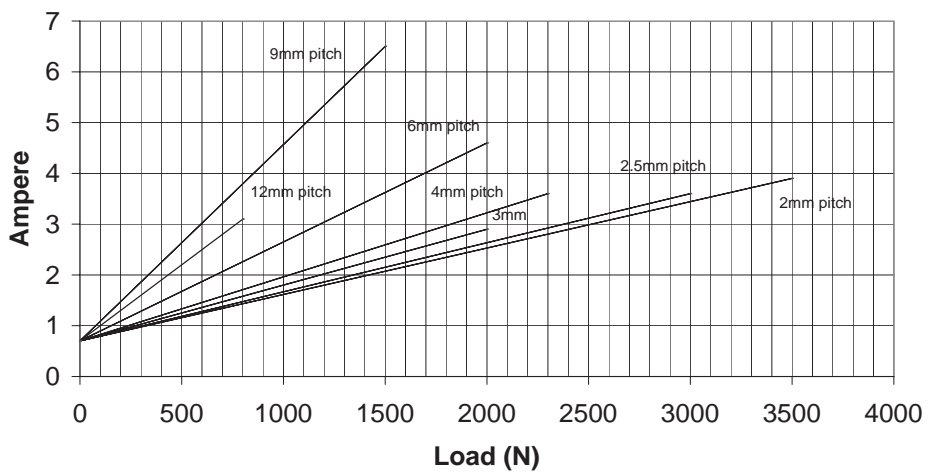


Curves:

LA28 "S" motor speed v's load

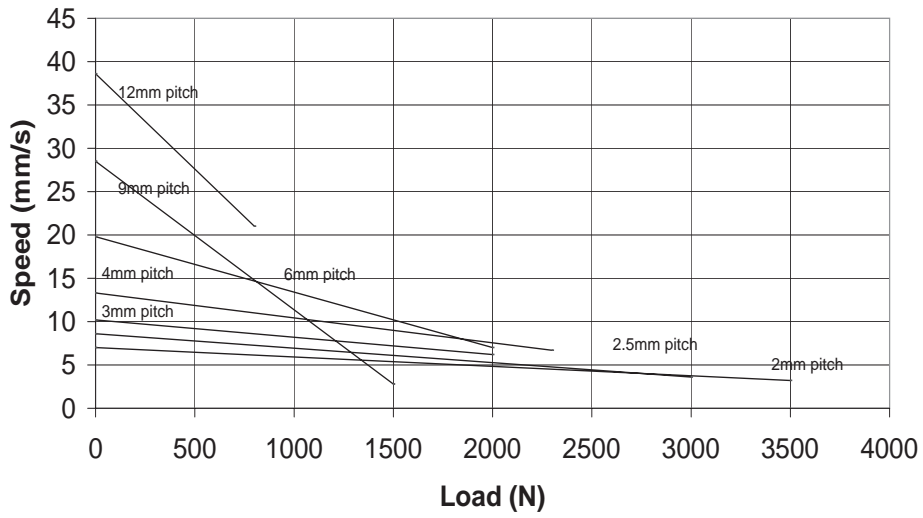


LA28 "S" motor current v's load

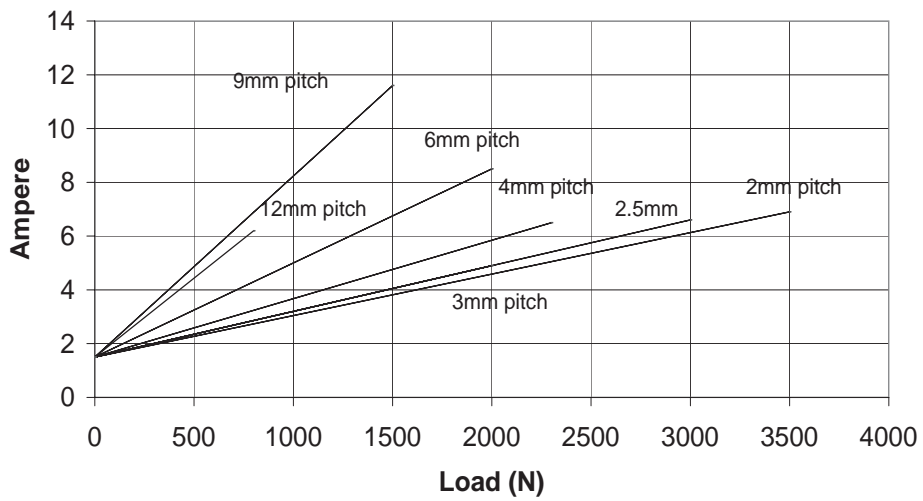


Curves:

LA28 12V motor speed v's load



LA28 12V motor current v's load



Specifications subject to change without prior notice.
It is the responsibility of the product user to determine the suitability of LINAK A/S products for a specific application. LINAK will at point of delivery replace/repair defective products covered by the warranty if promptly returned to the factory. No liability is assumed beyond such replacement/repair.