

Linear actuator

Matrix 3

Benefits

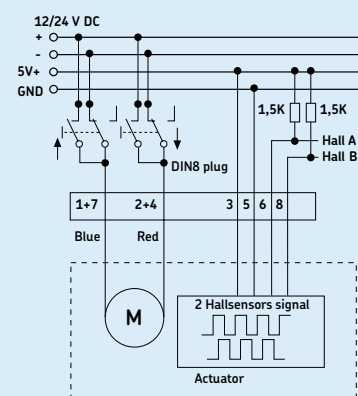
- Silent operation
- Full system with control unit, operating switch and accessories
- Synchronization possible
- Compact and aesthetic
- Back-up nut as standard



Suitable control units and accessories

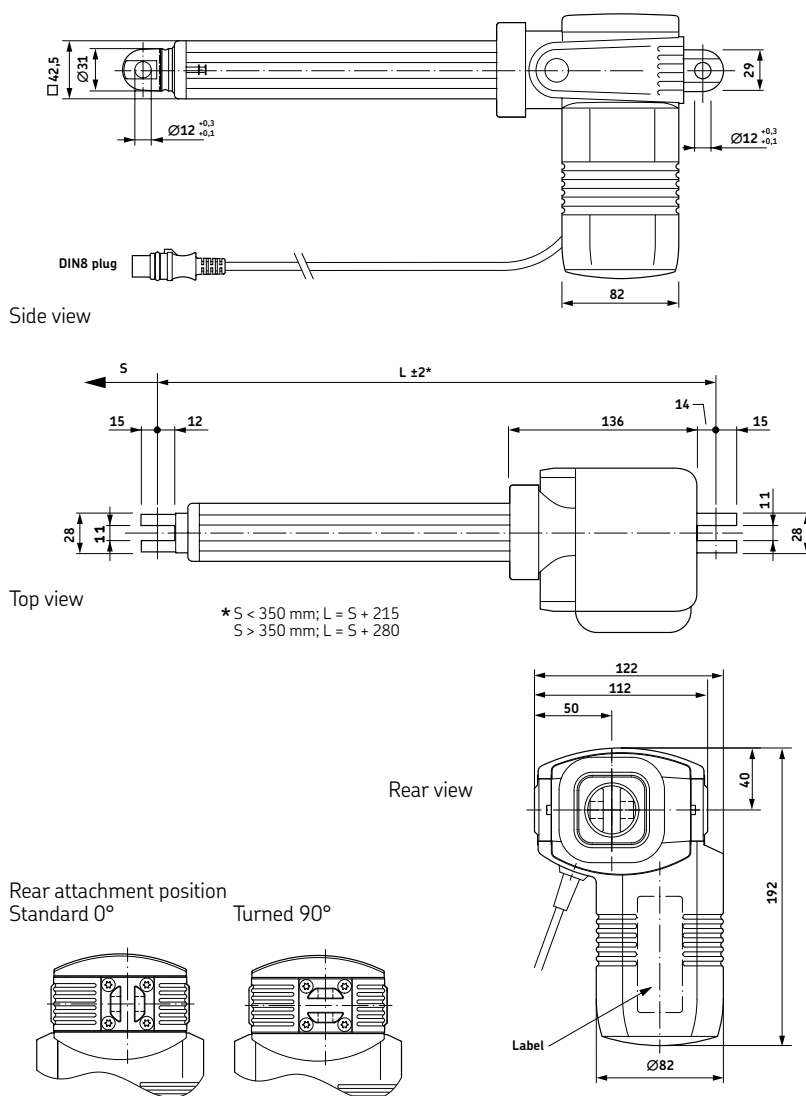
Control units		SCU 1	SCU 5	SCU 9	VCU 5	VCU 8	VCU 9	BCU 5	BCU 8	MCU
MAX 3		●	●	●	●	●	●	●	●	●
Hand switch	EHA1	●	●	●	●	●	●	●	●	●
Foot switch	EHA3	●	●	●	●	●	●	●	●	●
Desk switch	STJ	●	●	●	●	●	●	●	●	●
	STA	●	●	●	●	●	●	●	●	●
	STE	●	●	●	●	●	●	●	●	●

Connecting diagram*



* Only valid for MAX 31. MAX 30 must be operated by a BCU, MCU, SCU or VCU control unit.

Dimensional drawing



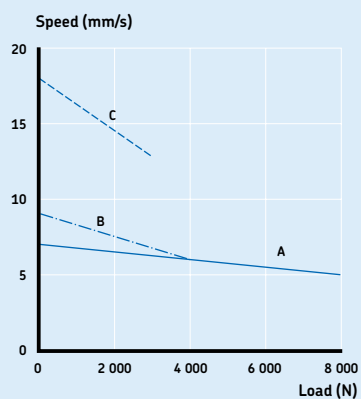
Technical data

	Unit	MAX 3..A..	MAX 3..B..	MAX 3..C..
Rated push load	N	8 000	4 000	3 000
Rated pull load	N	6 000 ¹⁾	4 000	3 000
Speed (full load to no load)	mm/s	5 to 7	6 to 9	12,7 to 18
Stroke	mm	50 to 700	50 to 700	50 to 700
Retracted length	mm	$S + 215/280$ ²⁾	$S + 215/280$ ²⁾	$S + 215/280$ ²⁾
Voltage	V DC	12 or 24	12 or 24	12 or 24
Power consumption	W	120	120	120
Current consumption	A	5,0	5,0	5,0
Duty cycle	%	10 (1/9)	10 (1/9)	10 (1/9)
Ambient temperature	°C	0 to +40	0 to +40	0 to +40
Type of protection	IP	66S	66S	66S
Weight (at 200 mm stroke)	kg	4,5	4,2	4,0
Color	—	Grey	Grey	Grey

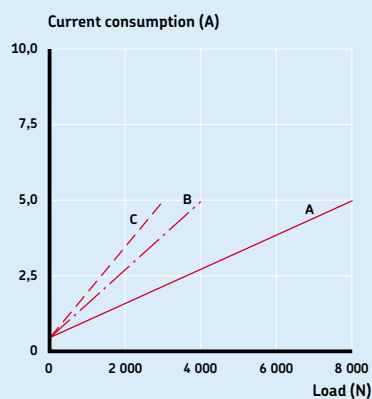
¹⁾ Max load for medical application is 5 000 N

²⁾ $S \leq 350 \text{ mm}; L = S + 215$
 $S > 350 \text{ mm}; L = S + 280$

Performance diagrams

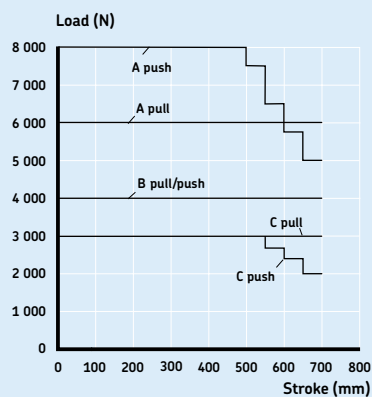


Speed-load diagram

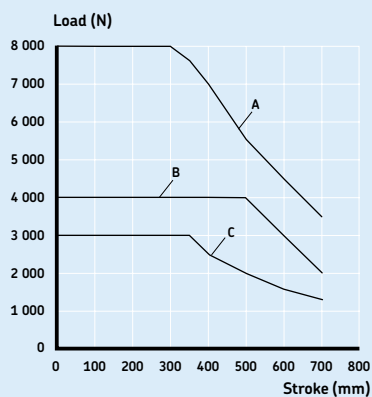


Current-load diagram

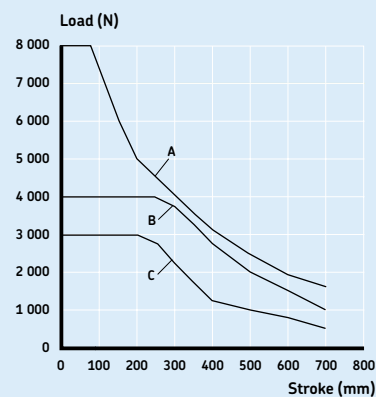
Safety factor load conditions



Push load reduction static
Safety factor S=1



Push load reduction static
Safety factor S=2



Push load reduction static
Safety factor S=4 (EN60601)

Ordering key

M	A	X	3	-							A						0	0	0
---	---	---	---	---	--	--	--	--	--	--	---	--	--	--	--	--	---	---	---

Type

Voltage:

24 V DC	0
24 V DC with integrated current cut-off	1
12 V DC	2

Load:

8 000 N	A
4 000 N	B
3 000 N	C

Stroke (S):

50 mm	050 265
100 mm	100 315
150 mm	150 365
200 mm	200 415
250 mm	250 465
300 mm	300 515
350 mm	350 565
400 mm	400 680
450 mm	450 730
500 mm	500 780
550 mm	550 830
600 mm	600 880
650 mm	650 930
700 mm	700 980

Other stroke lengths; 50<S<700 mm

Cable / Connecting plug:

Coiled, 0,75 m (not stretched) / DIN8 plug	0B
Straight, 2,5 m / DIN8 plug	C5
Special cable length on request	--

Orientation of rear attachment:

No fork head (customized option)	0
Standard (as drawing)	1
Turned 90°	2

Option 1:

No option, only valid for actuator "A" (push and pull)	0
Quick-release +EKZm, push, fork head bore parallel to button (for actuator design "C" is L= +115 mm)*	E
Quick-release +EKZm, push, fork head bore 90° to button (for actuator design "C" is L= +115 mm)*	F
Electrical anti-pinching protection, motor direction pull	K
Electrical anti-pinching protection, motor direction push	L
Push load, for actuator version "B" and "C"	M
Pull load, for actuator version "B" and "C"	N

EKZm: mechanical anti-pinching *min. stroke 150 mm up to 300 mm

Option 2:

No option	0
2-Hall encoder, DIN8 plug	F
Lifetime monitoring	M
Lifetime monitoring, 2-Hall encoder, DIN8 plug	P

Option 3:

No option	-
Emergency lowering, fork head bore parallel to clamping lever (for actuator design "A", L+30 mm)	V
Emergency lowering, fork head bore 90° to clamping lever (for actuator design "A", L+30 mm)	W

Options shown in italics are only available on demand. Contact SKF for more information on minimum quantities and additional costs.

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