

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

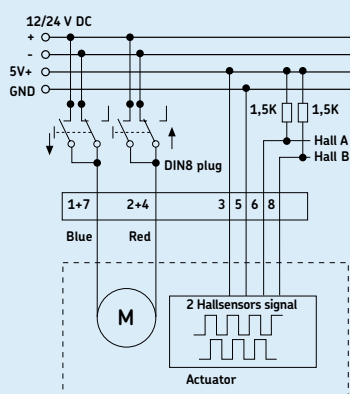


Suitable control units and accessories

Control units		SCU 1	SCU 5	SCU 9	VCU 5	VCU 8	VCU 9	BCU 5	BCU 8	MCU
MAX 3		•	•	•	•	•	•	•	•	•
	EHA1									•
	EHA3	•	•	•	•	•	•	•	•	•
	STJ	•	•	•	•	•	•	•	•	•
	STA									•
	STE	•	•	•	•	•	•	•	•	•

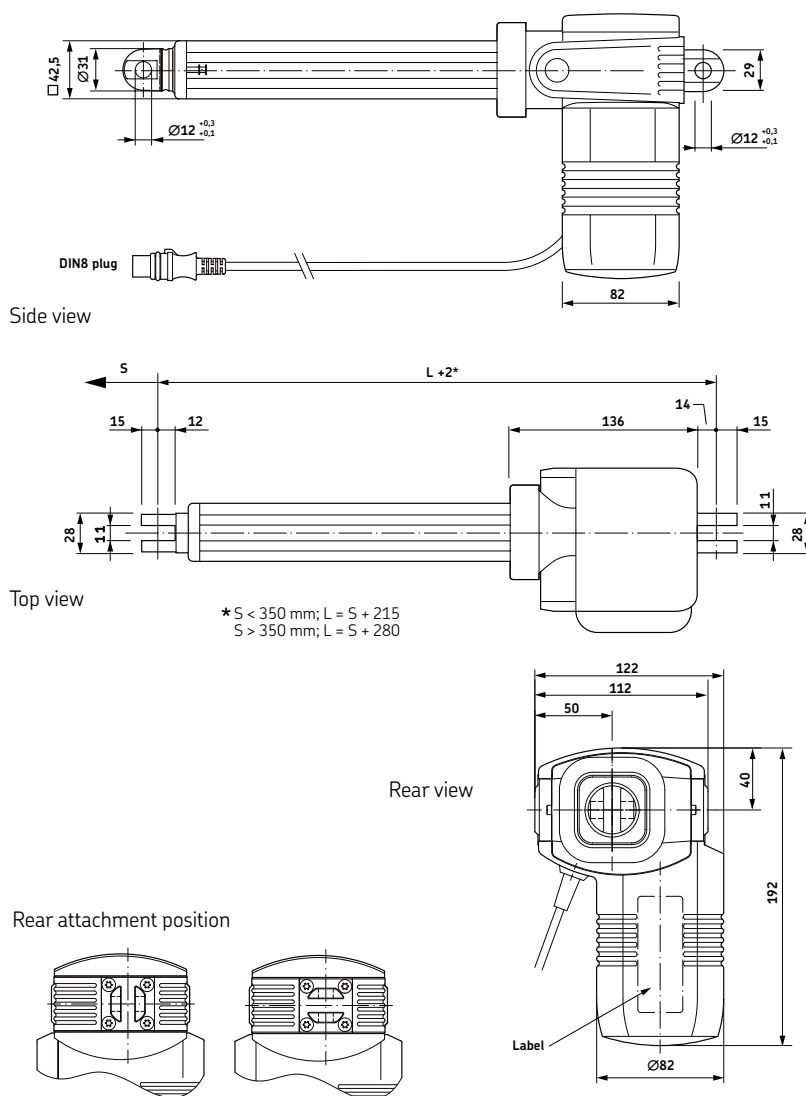
Hand switch
 Foot switch
 Desk switch

Connecting diagram*



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

Dimensional drawing



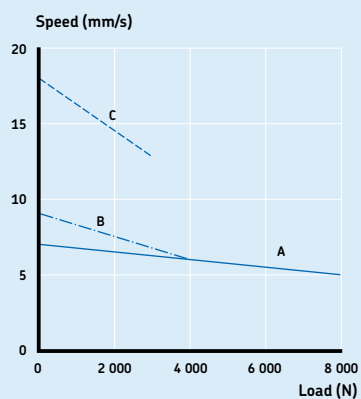
Technical data

	Unit	MAX 3..A..	MAX 3..B..	MAX 3..C..
Push load	N	8 000	4 000	3 000
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

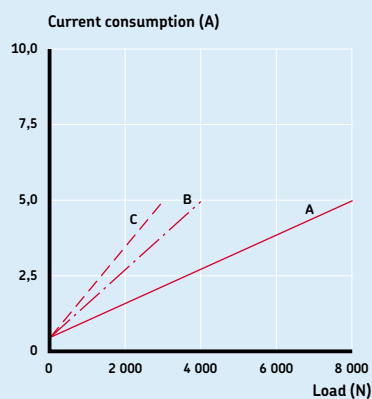
¹⁾ Max load for medical application is 5 000 N

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

Performance diagrams

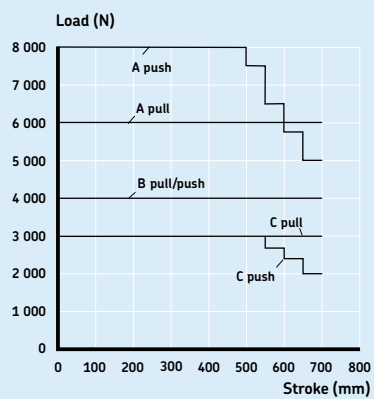


Speed-load diagram

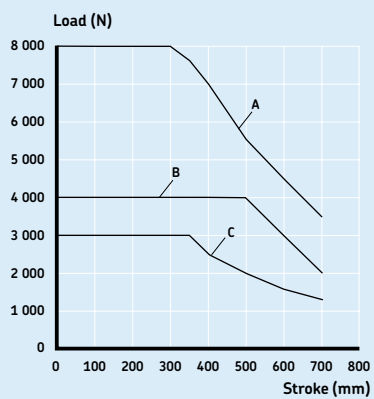


Current-load diagram

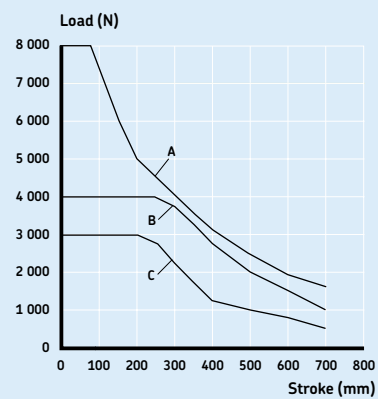
Safety factor load conditions



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

24 V DC with integrated current cut-off

12 V DC

0

1

2

Load:

8 000 N

4 000 N

3 000 N

A

B

C

Stroke (S):

50 mm

100 mm

150 mm

200 mm

250 mm

300 mm

350 mm

400 mm

450 mm

500 mm

550 mm

600 mm

650 mm

700 mm

Other stroke lengths; 50 < S < 700 mm

050 265

100 315

150 365

200 415

250 465

300 515

350 565

400 680

450 730

500 780

550 830

600 880

650 930

700 980

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Cable / Connecting plug:

Coiled, 0,75 m (not stretched) / DIN8 plug

Straight, 2,5 m / DIN8 plug

Straight, 0,1 m - 2,5 m (select in 0.1 m steps) / DIN8 plug*

0B

C5

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*First code: A for cables <1m / B for cables ≥1 m, < 2m. Second code: dm in addition to first code E.g. B7 = 1,7 m

Orientation of rear attachment:

No fork head (customized option)

Standard (as drawing)

Turned 90°

0

1

2

Option 1:

No option, only valid for actuator "A" (push and pull)

Quick-release +EKZm, push, fork head bore parallel to button (for actuator design "C" is L= +115 mm)*

Quick-release +EKZm, push, fork head bore 90° to button (for actuator design "C" is L= +115 mm)*

Electrical anti-pinching protection, motor direction pull

Electrical anti-pinching protection, motor direction push

Push load, for actuator version "B" and "C"

Pull load, for actuator version "B" and "C"

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

O
E
F
K
L
M
N

Option 2:

No option

Dual encoder, DIN8 plug

Lifetime monitoring

Lifetime monitoring, Dual encoder, DIN8 plug

O
F
M
P

Option 3:

No option

Emergency lowering, fork head bore parallel to clamping lever (for actuator design "A", L+30 mm)

Emergency lowering, fork head bore 90° to clamping lever (for actuator design "A", L+30 mm)

-
V
W

Options written in italic fonts are only available on demand. Please contact SKF.