

Matrix3

Linear actuator



Benefits

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

Technical data

	Unit	MAX3..A..	MAX3..B..	MAX3..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	13 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	5,2	5,2
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
Color	–	Grey	Grey	Grey

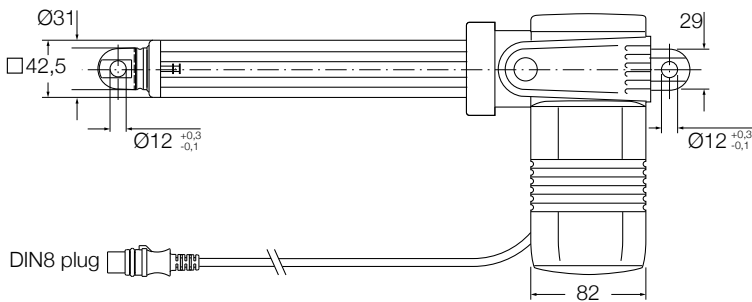
¹⁾ Max load for medical application is 5 000 N

²⁾ S ≤ 350 mm; L = S + 215

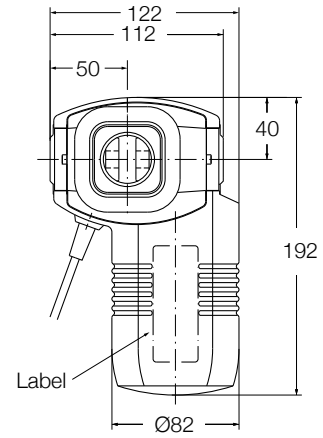
S > 350 mm; L = S + 280

Dimensional drawing

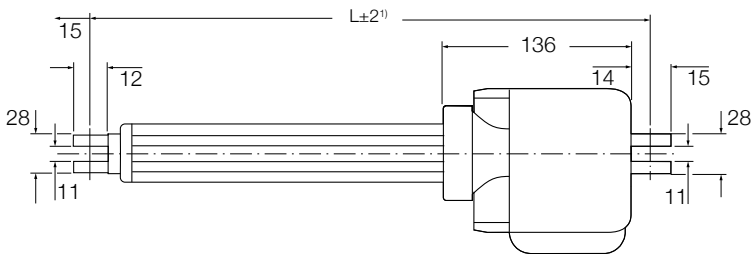
Side view



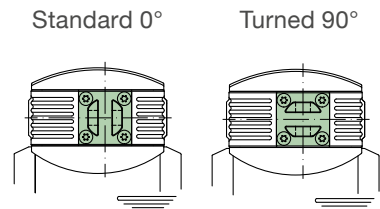
Front view



Top view

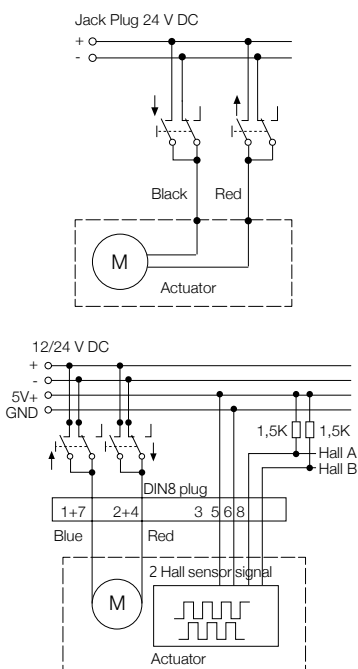


Rear view









¹) S < 350 mm; L = 215 + S
S > 350 mm; L = 280 + S




Connecting diagrams



¹) Only valid for MAX 31. MAX 30 must be operated by a BCU, MCU, SCU or VCU control unit.

Suitable control units and accessories

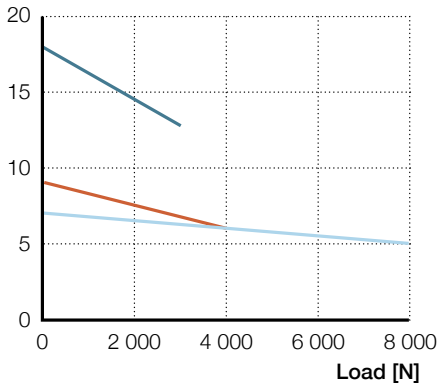
	Control units			
	SCU	VCU	BCU	MCU
MAX 3	•	•	•	•
Operating switches				
EHA 1 				•
EHA 3 	•	•	•	
STJ 	•	•	•	
STF 				•
STE 	•	•	•	
STA 				•

 Hand switch
  Foot switch
  Desk switch

Performance diagrams

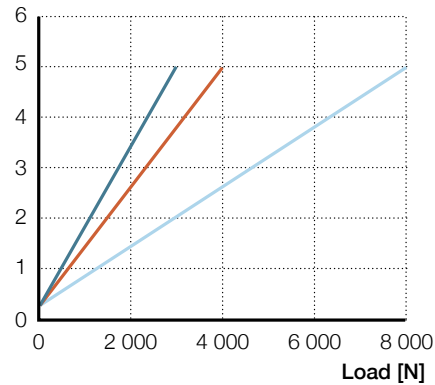
Speed-load diagram

Speed [mm/s]



Current-load diagram

Current consumption [A]



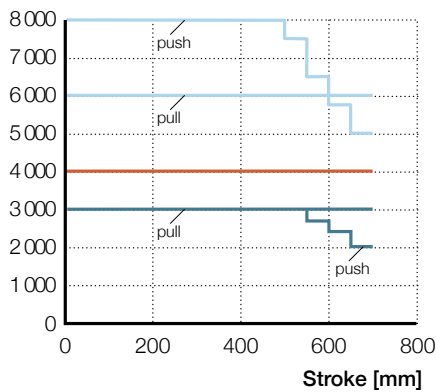
— Rated push force 3 000

— Rated push force 4 000

— Rated push force 8 000

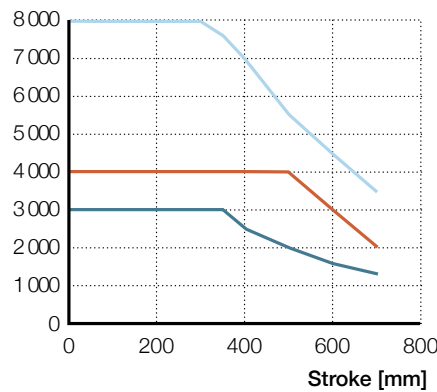
Safety factor load conditions

Load [N]



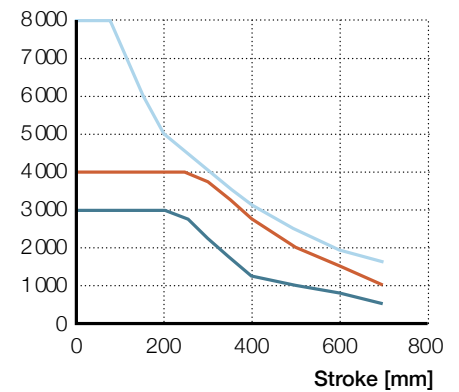
Push load reduction static
 Safety factor S=1

Load [N]



Push load reduction static
 Safety factor S=2

Load [N]



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

— Rated push force 3 000

— Rated push force 4 000

— Rated push force 8 000

