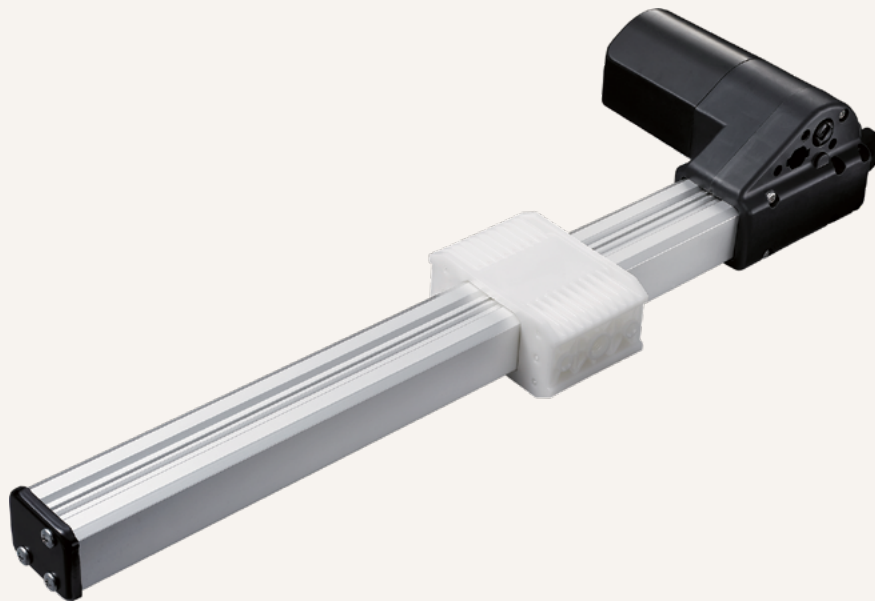


TA5P

series



Product Segments

• Comfort Motion

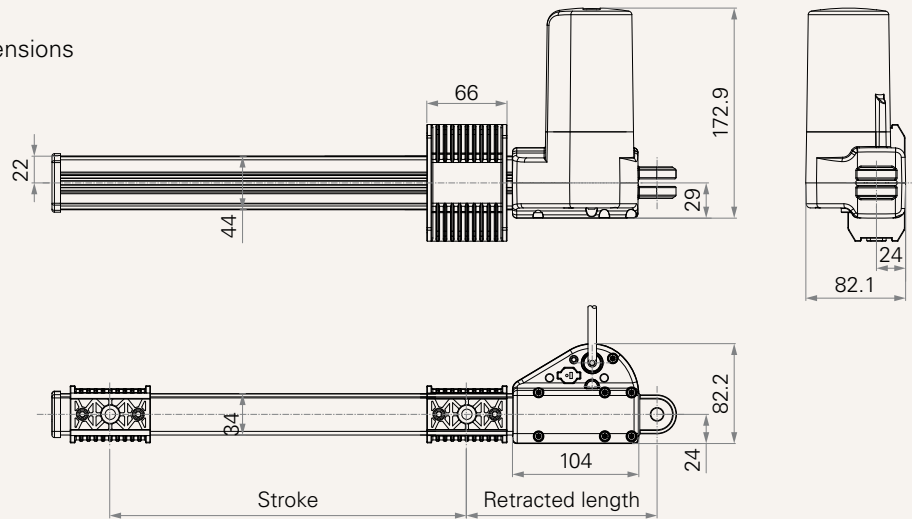
TiMOTION's TA5P series linear actuator retains the same high quality features as the TA5. This linear actuator is designed using a one-piece aluminum outer cover for increased strength and enhanced protection from contaminants. The TA5P utilizes a linear slide to move the load, instead of a standard extension tube. Industry certifications for the TA5P include EMC, and RoHS. It is also available with Hall sensors for position feedback and a special L-shaped mounting bracket.

General Features

Voltage of motor	12V DC, 24V DC, or 36V DC
Maximum load	6,000N in push
Maximum load	3,000N in pull
Maximum speed at full load	30mm/s (with 750N in a push or pull condition)
Color	Black
Certificate	UL962, EN 61000-6-1, EN 61000-6-3
Options	Hall sensor(s), L-shaped bracket
Specially designed for recliner	
One-piece design, stronger structure, cable-free	

Drawing

Standard Dimensions
(mm)



Load and Speed

CODE	Load (N)		Self Locking Force (N)	Typical Current at Rated Load (A)	Typical Speed (mm/s)	
	Push	Pull			No Load 32V DC	With Load 24V DC
Motor Speed (2600RPM)						
A	750	750	250	4.5	44.5	23.6
C	5000	3000	2500	5	7.1	3.9
D	6000	3000	4000	5	5.4	2.9
E	3000	3000	1500	4	11	6.2
F	2500	2500	1000	4	15.8	7.8
G	2000	2000	1000	5	22.5	13
H	1200	1200	350	4	33	19
J	3000	3000	3000	4.5	11.1	5.8
Motor Speed (3400RPM)						
L	6000	3000	4000	5	7	3.9
M	3000	3000	1500	4.8	14.6	8.2
N	2500	2500	1000	4.5	21	11
O	2000	2000	1000	4.5	29.2	16
P	1200	1200	350	5	43.5	23
Q	3000	3000	3000	5.2	14.5	7.6
S	750	750	250	4.5	58	30
T	5000	3000	2500	5	9.2	4.6

Note

- 1 The current & speed in table are tested with 24V DC motor. With a 12V DC motor, the current is approximately twice the current measured in 24V DC; speed will be similar for both voltages.
- 2 The current & speed in table are tested when the actuator is extending under push load.
- 3 Option: C / D / E / F / G / J / L / M / N / O / Q / T use metal bearing, and others use plastic bearing.
- 4 Option: A / H / P / S can't work with motor brake.

Voltage	1 = 12V DC	2 = 24V DC	3 = 36V DC
Load and Speed	See page 2		
Stroke (mm)			
Retracted Length (mm)	See page 2		
L-Shaped Bracket on the Front	0 = Without	1 = With	
Functions for Limit Switches See page 4	1 = Two switches at the retracted/extended positions to cut current.	3 = Two switches at the retracted/extended positions to send signal.	4 = Two switches at the retracted/extended positions and the third one in between to send signal.
	2 = Two switches at the retracted/extended positions to cut current with the third one in between to send signal.		
Output Signals	0 = Without	1 = Hall sensor*1	2 = Hall sensor*2
Connector See page 4	1 = DIN 6P, 90° plug	2 = Tinned leads	
Cable Length (mm)	0 = Without	3 = Straight, 1000	6 = Straight, 2000
	1 = Straight, 500	4 = Straight, 1250	7 = Curly, 200
	2 = Straight, 750	5 = Straight, 1500	8 = Curly, 400
Slot Position on Outer Tube	1 = Front	2 = Reverse	

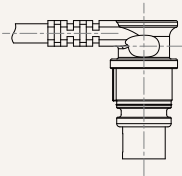
Functions for Limit Switches

Wire Definitions

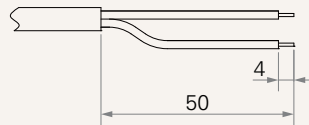
CODE	Pin					
	● 1 (Green)	● 2 (Red)	○ 3 (White)	● 4 (Black)	● 5 (Yellow)	● 6 (Blue)
1	extend (VDC+)	N/A	N/A	N/A	retract (VDC+)	N/A
2	extend (VDC+)	N/A	middle switch pin B	middle switch pin A	retract (VDC+)	N/A
3	extend (VDC+)	common	upper limit switch	N/A	retract (VDC+)	lower limit switch
4	extend (VDC+)	common	upper limit switch	medium limit switch	retract (VDC+)	lower limit switch

Connector

1 = DIN 6P, 90° plug



2 = Tinned leads



Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application. TiMOTION products are subject to change without prior notice.