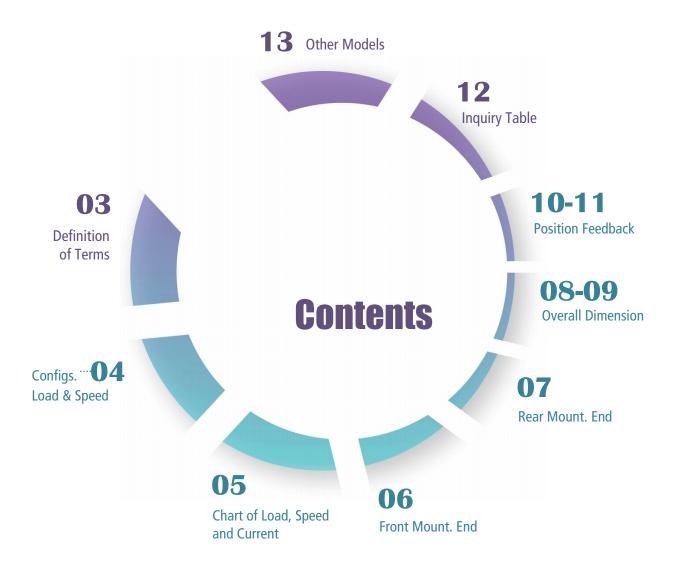


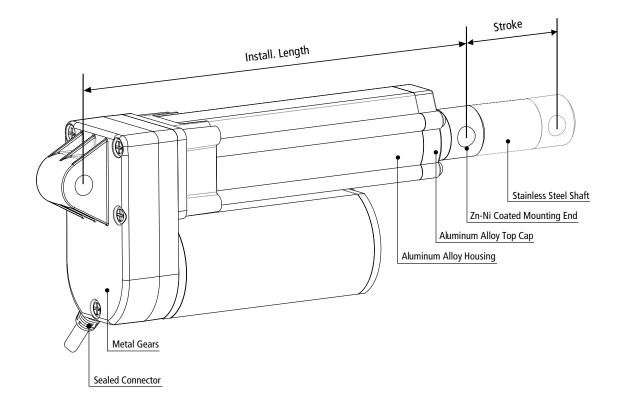
ACTUATOR











Stroke	How far the rod extends outwards from the body. The difference between fully extended length and fully retracted length. [Customizable]
Install. Length	The fully closed size. [Customizable]
Front Mount. End	Optional.
Rear Mount. End	Optional.
Mount. Holes	Can be rotated by 90°.
Dynamic Force	The max force that actuator is able to carry when it is moving.
Selflocking	The max force that linear actuator is able to hold when it stops.
Weather Protection	IP XX. The first digit: dust protection. The second digit: liquid protection. Please refer to [Table 1].
Duty Cycle	Continous working time 'a', rest time 'b'. Duty cycle is a/(a+b)x100%. Please refer to [Table 1].
Speed	Include free-load speed and full-load speed.
Hall Sensor	Provide pulse signals. Displacement measurement is achieved through pulse counting, and the phase difference of the waveform can be used to identify the rotation direction of motor. Check [Table 1] to see if it is available.
Potentiometer	Potentiometer is a three-terminal variable resistor with a rotating contact which is used to measure the displacement of actuators. Check [Table 1] to see if it is available.
Manual Override	Can be used to extend or retract the actuator without power for emergency. Check [Table 1] to see if it is available.

Configs.

Color	Sliver	🗆 Black	\Box Customized			
Lead Screw	Acme Screw	□ Ball Screw				1
Operation Mode	Electrical	Electrical + Manua	ıl			
Application	Industrial	□Furniture	\Box Medical			
Operational Temp.	□5 to 40°C	■ -10 to 65°C	■-40 to 65 °C	•		
Operating Noise	$\Box \leq 45 \text{ dB}$	□≤50 dB	■ ≤65 dB			
Stroke Range	50-600mm	600-1,000mm				
Dynamic Load	□ ≤1,200N	■ ≤2,000N	□≤4,000N	□ ≤7,000N	□ ≤12,000N	□≤20,000N
Duty Cycle	□10%	□20%	25%*	□50%	□ 100%	
Motor Type	Brushed DC	□ Stepper Motor	Brushless	□Servo Motor		
Overload Protection	None	Clutch	□Electronic	\Box Thermistor		
Weather Protection	□IP20	□ IP43	□IP54	□ IP65	IP66	
Position Feedback	None	Endstop Signal	Hall Sensor	Potentiometer	Encoder	Reed Switches
Input Voltage	12VDC	24VDC	36VDC	48VDC	□ 110VAC	□ 220VAC

*Don't exceed four minutes continuous working at full load with 20 $^\circ\!\mathrm{C}$.

Options for LA-J Other Models

[Table 1]

Parameters

Fill in code:

Code	Max. Dynamic Load	Max. Self-locking	plich special 10,0		⊧10%	③ Max. Stroke w/o Pot.	③ Max. Stroke with Pot.	
	(N)	(N)	-	(mm)	Free Load	Full Load	(mm)	(mm)
А	2,000	3,000	40:1	3.17	5	4	1,000	200
В	1,600	2,200	30:1	3.17	7	5.5	1,000	200
С	1,200	1,600	20:1	3.17	10	8	1,000	200
D	700	900	10:1	3.17	20	14	1,000	200
E	300	400	5:1	3.17	40	30	1,000	200
F	1,200	1,600	40:1	5	8	6	1,000	300
G	800	1,100	30:1	5	10.5	8	1,000	300
Н	600	800	20:1	5	15	11	1,000	300
I	400	600	10:1	5	30	22	1,000	300
J	200	300	5 <mark>:1</mark>	5	<mark>55</mark>	<mark>45</mark>	<mark>1,000</mark>	300

[Table 2]

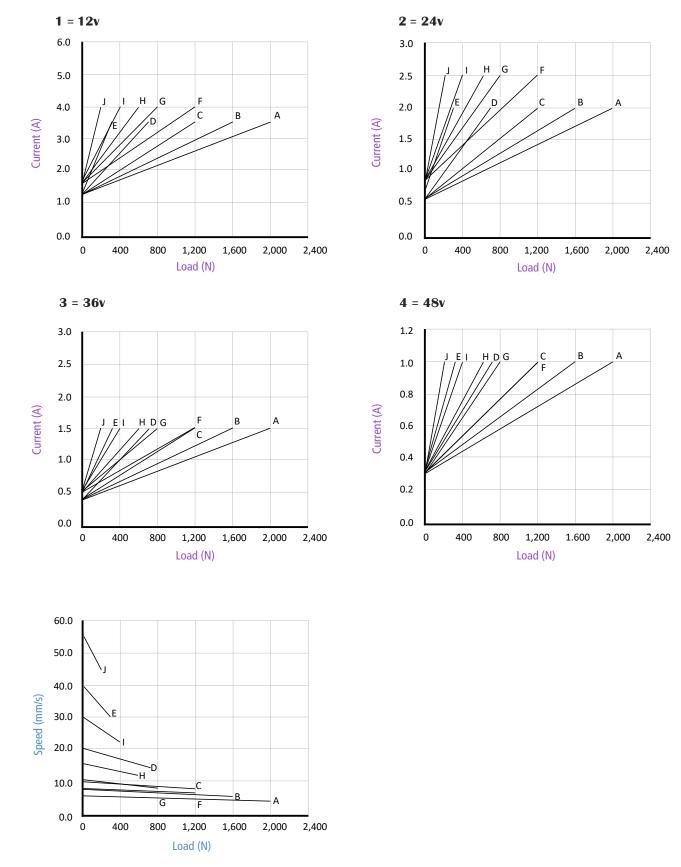
① Measurements are made with actuators in connection with stable power supplies and ambient temperature at 20°C.

⁽²⁾ For example, when real load is 1200N, choosing code (C) is fine. Of course, you can also choose (F) (B) or even (A) which come with more load buffer, higher safety factor and longer product service time.

③ There are many factors affecting the "customizable maximum stroke", such as load, speed, force direction, etc., so the real application scenarios should be considered. If the parameters you required are not listed, please contact our sales engineers.



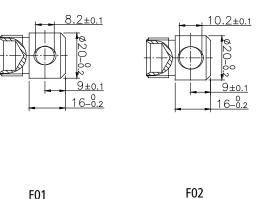


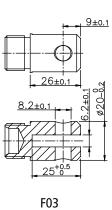


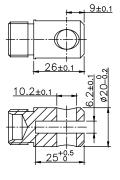
* Measurements are made with actuators in connection with stable power supplies and ambient temperature at 20°C.



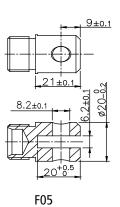
1. Please contact our sales team if none of the options below meet your requirements.



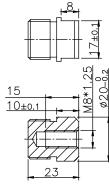




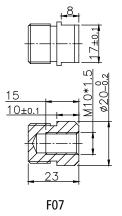
F04

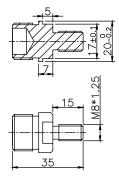


F01

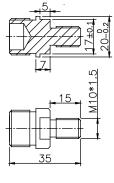


F06



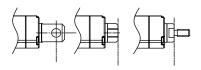


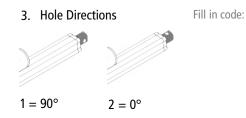
F08





2. Start of Installation Length







1. Please contact our sales team if none of the options below meet your requirements.

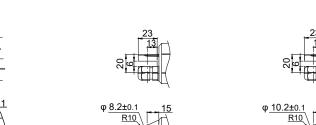
20

φ 10.2±0.1

<u>R10</u>

57.5

R02





Fill in code:

R04

2. End of Installation Length

R01



20

φ 8.2±0.1

<u>R10</u>

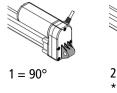
57.5

3. Hole Directions

45

R03

Fill in code:





* not applied to R03 & R04

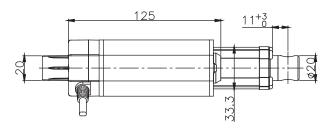




S =

mm

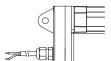
1. Overall Size [w/o Potentiometer]



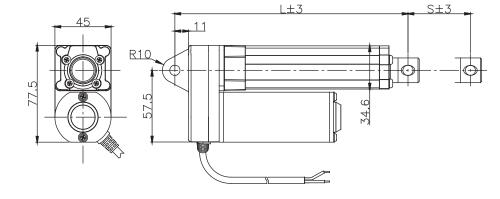
Fill in code:



A: sideway cable outlet *not applied to R03 & R04



B: bottom cable outlet



2. Installation Size (L≥A+B+C)

A. Mounting Ends	Rear Ends			
Front Ends	R01, R02	R03, R04		
F01, F02, F05-F09	S+108	S+112		
F03, F04	S+115	S+119		

[Table 3]

B. Stroke Range	mm	C. Reed Switch	mm
30 - 299	+ 0		
300 - 399	+ 12	Optional	+ 10
≥ 400	+ 22		
[Table 4]		[Table 5]	

[Table 5]	
-----------	--

Example

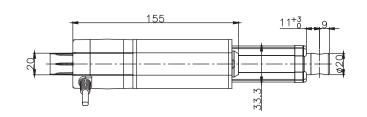
Front Mount. End	Rear Mount. End	Stroke	А	В	w/o Reed Switch	L≥A+B+C
F04	R01	300	300+115	+12	C = 0	≥ 427

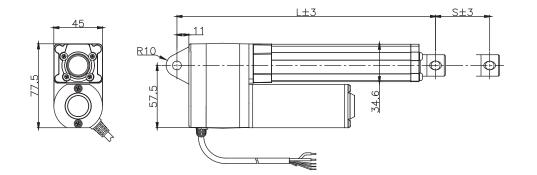
[Table 6]



S =

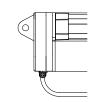
1. Overall Size [with Potentiometer]



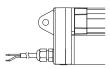




mm, L =



A: sideway cable outlet *not applied to R03 & R04



B: bottom cable outlet

2. Installation Size (L≥A+B+C)

A. Mounting Ends	Rear Ends			
Front Ends	R01, R02	R03, R04		
F01, F02, F05-F09	S+140	S+144		
F03, F04	S+147	S+151		

[Table 7]

B. Stroke Range	mm	C. Reed Switch	mm
30 - 300	+ 0	Optional	+ 10

[Table 8]

Optional		+ 10
	[Table 9]	

Example

Front Mount. End	Rear Mount. End	Stroke	А	В	w/o Reed Switch	L≥A+B+C
F04	R01	300	300+147	+0	C = 0	≥ 447

[Table 10]





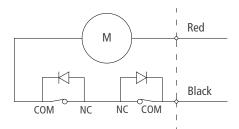
Fill in code:

0 = None1 - Endston Sig

- 1 = Endstop Signal
- 2 = Potentiometer 3 = Hall Effect Sensor
- 4 = Reed Switches

0. Standard Limit Switches without Signal feedback

Standard DJ809 comes with limit switches that shut off the motor automatically at the end of its travel.

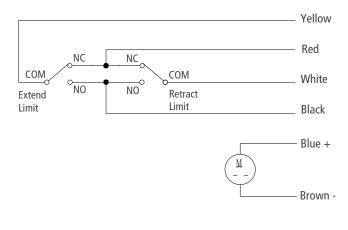


Wiring					
Black Red					
Extend	-	+			
Retract	+	-			

[Table 11]

1. Endstop Signal

The actuator can be equipped with endstop signals output, but it will not auto-stop at neither end of the travel.

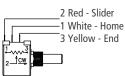


Power Wire Coding				
	Brown	Blue		
Extend	-	+		
Retract	+	-		
Signal Wire Coding				
Black	Extend / Retract limit, N.O.			
Red	Extend / Retract limit, N.C.			
Yellow	Extend limit. COM.			
White	Retract limit. COM.			

[Table 12]

2. Potentiometer

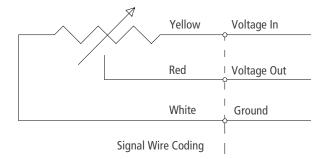
Code	Max. Stroke	Resistance Value per mm		
A, B, C, D, E	200 mm	0.047K Ω		
F, G, H, I, J	300 mm	0.030K Ω		

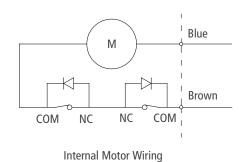


Connect 1+2, resistance value increase, actuator extend.

* Start value 0K Ω

[Table 13]





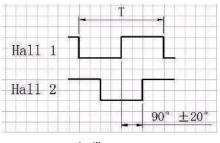


3. Hall Sensor (standard dual-sensor)

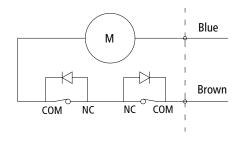
	Pulse Equivalent Per Sensor (pulse/mm)				
	1 pole pair	4 pole pairs (standard)			
А	12.60	50.40			
В	9.45	37.80			
C	6.30	25.20 12.60 6.30 32.00			
D	3.15				
E	1.57				
F	8.00				
G	6.00	24.00			
Н	4.00	16.00			
I	2.00	8.00			
J	1.00	4.00			
[Table 14]					

Wire Coding





Oscillogram



Internal Motor Wiring

4. Reed switch

Standard N.O. contact. Optional N.C. contact.

Inquiry Table



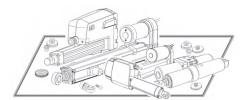
	RESET			
Voltage	1 = 12VDC 2 = 24VDC 3 = 36VDC 4 = 48VDC			
Load & Speed	See [Table 2]			
Stroke (mm)	Please contact us if the stroke you required is out of range.			
Install. Length (mm)	See Table [3] - [10]			
Front Mount. End	F01 - F09 FX = Custom			
Rear Mount. End	R01 - R04 RX = Custom			
Mount. Hole Direction	Front $1 = 90^{\circ}$ $2 = 0$ Rear $1 = 90^{\circ}$ $2 = 0^{\circ}$			
Signal Feedback	0 = None $1 = Endstop Signal 2 = Potentiometer 3 = Hall Sensor 4 = Reed Switches$			
Cable Length	1 = 500 mm 2 = 1,000 mm 3 = 2,000 mm X = Custom			
Connector	A = Sideway Cable Outlet0 = Tinned Bared WiresB = Bottom Cable Outlet1 = Match with KZ-series ControllerX = Custom			
Working Temperature	$1 = -10^{\circ}$ C to 65 °C $2 = -40^{\circ}$ C to 65 °C			
Working Frequency	Estimated cycles work per day			
End Use	Indoor or outdoor, and please descirbe your end use.			
Your contact	Company Name Tel. Email			
	Load & Speed Stroke (mm) Install. Length (mm) Front Mount. End Rear Mount. End Mount. Hole Direction Signal Feedback Cable Length Connector Working Temperature Working Frequency End Use			

I You may also be interested in...

Model	Load (N)	Stroke (mm)	Speed (mm/s)	Install.Length (mm)	Overall Size (mm)	IP rate	Application
LA-E29 (Track)	1,500	50-600	16-32	155	155 x 77.4 x L	IP20	Furniture
LA-L6	3,000	50-600	5.0-15	S+155	148.5 x 80 x L	IP66	Furniture Medical Care
LA-L9	6,000	50-600	5.0-32	S+150	156 x 83 x L	IP66	Furniture Medical Care
LA-L18	8,000	50-600	4.7-28	S+175	156 x 83 x L	IP66	Furniture Medical Care
LA-28	10,000	50-600	5.0-16	S+17	166 x 91 x	IP66	Furniture Medical Care
LA-Q	1,200	50-600	5.5-80	S+105	40 x 75 x L	IP66	Industrial
* LA-J	2,000	50-600	5.0-55	S+108	45 x 77.5 x L	IP66	Industrial
LA-J2	2,000	50-600	6-15	S+115	43 x 84.5 x L	IP66	Furniture Medical Care Industrial
LA-J6	2,500	50-600	2.5-22	S+120	64.5 x 102 x L	IP66	Furniture Medical Care Industrial
LA-J6-P	1,000	50-600	25-50	S+140	64.5 x 102 x L	IP66	Industrial
LA-33	4,000	50-600	5.5-35	S+200	76 x 151 x L	IP65	Industrial
LA-33P	7,000	50-600	5.5-35	S+200	76 x 151 x L	IP66	Industrial
LA-C	7,000	50-600	5.5-35	S+250	77 x 151 x L	IP66	Industrial
LA-G2	12,000	50-1,000	6.5-37	S+200	102 x 154 x L	IP66	Industrial

* You are now reading...





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