

Dear Customers,

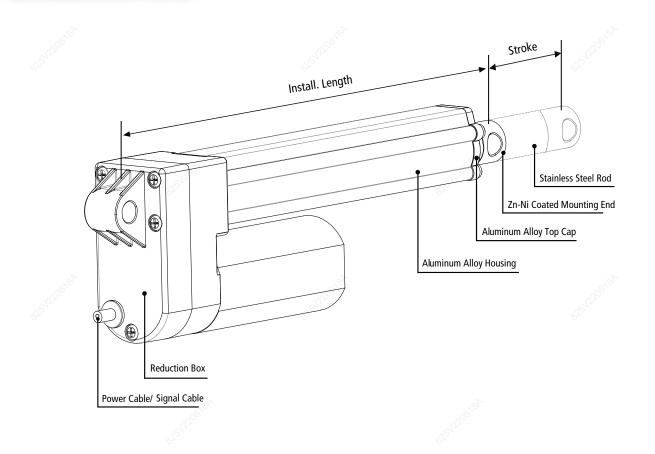
What a big world! But thanks to crazy technology, it's been getting smaller than ever, so that we can meet here from all corners of the world. It's our pleasure to have opportunities to provide you with a variety of products and services to help with the implementation of your amazing designs.

We present our products thoroughly in front of you by using refined parameters and words, so that you can find the most suitable solution.

Next, we will take you to a deeper understanding of Hongba's products. Please read this datasheet carefully. You are also welcome to leave valuable comments and suggestions to help Hongba improve itself continuously.

HB Engineer Team

Definition of Terms



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	\square Customized			
Lead Screw	Acme Screw	☐ Ball Screw				118
Operation Mode	■ Electrical	☐ Electrical + Manua	al			0
Application	Industrial	■ Furniture	Medical			
Operational Temp.	□5 to 40°C	■ -10 to 65°C	■-40 to 65°C			
Operating Noise	■ ≤45 dB	□ ≤50 dB	□ ≤65 dB			
Stroke Range	■ 50-600mm	□ 600-1,000mm				
Dynamic Load		■ ≤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	□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 two minutes continuous working when with full load and 20 °C.

[Table 1]

Parameters

Fill in code:

Code	Max. Dynamic Load	Max. Self-locking	Reduction Ratio	Pitch	Speed± (mm	/s)	Max. Stroke
	(N)	(N)	-	(mm)	Free Load	Full Load	(mm)
Α	2,000	3,000	32.6:1	3.17	6.0	5.0	600
В	1,500	2,500	32.6:1	5	10.0	7.0	600
C	1,000	1,500	32.6:1	7.5	15.0	11.0	600

[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 1400N, choosing code (B) is fine. Of course, you can also choose (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.

0.0

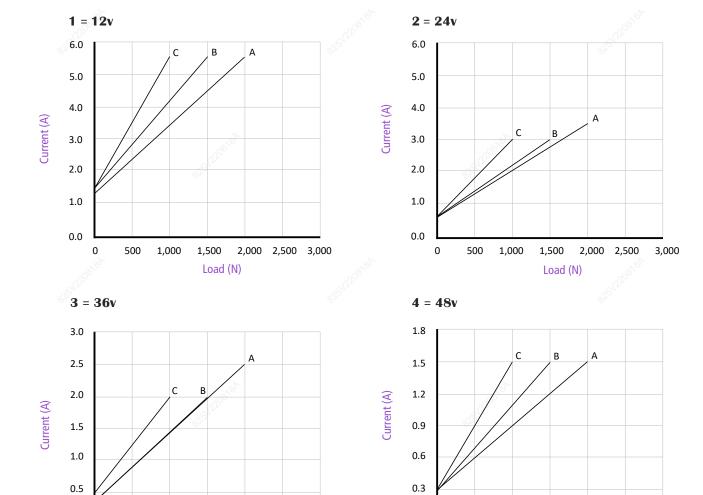
500

1,000

1,500

Load (N)

2,000 2,500 3,000



0.0

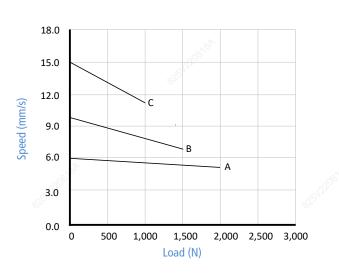
500

1,000

1,500

Load (N)

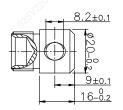
2,000 2,500 3,000

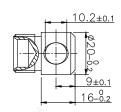


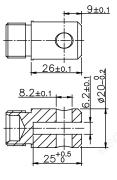
* Measurements are made with actuators in connection with stable power supplies and ambient temperature at 20°C.

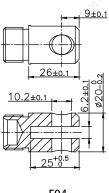
1. Please contact our sales team if none of the options below meet your requirements.

Fill in code:







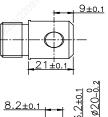


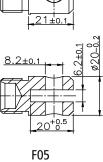
F01

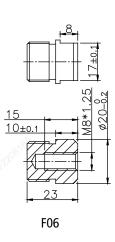
F02

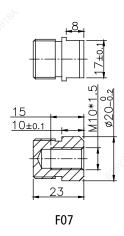


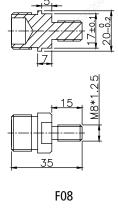


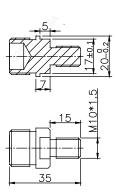






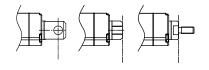




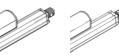


F09

2. Start of Installation Length



3. Hole Directions



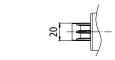


Fill in code:

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

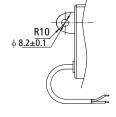
Fill in code:









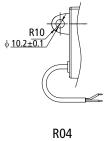




R02

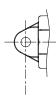


R03



R01

2. End of Installation Length



3. Hole Directions

Fill in code:





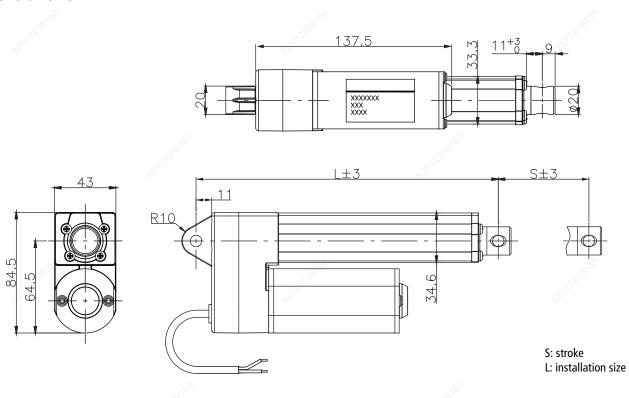
2 - 0

* not applied to R01 & R02

mm

Dimension

1. Overall Size



2. Installation Size (L≥A+B+C)

A. Mounting Ends		Rear Ends	
Front Ends	30° No.	R01- R04	200
F01, F02, F05-F09	5	S+115	975
F03, F04		S+123	

[Table 3]

B. Stroke Range	mm
30 - 299	+ 0
300 - 499	+ 30
≥ 500	+ 60

C. Reed Switch	mm
35,17	
Optional	+ 10

[Table 4] [Table 5]

Example

Front Mount. End	Rear Mount. End	Stroke	Α	В	w/o Reed Switch	L≫A+B+C	
F04	R01	300	300+123	+30	C = 0	≥ 453	

[Table 6]

0 = No Signal Feedback

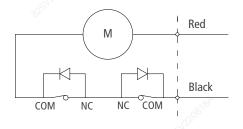
1 = Endstop Signal

2 = Hall Effect Sensor

3 = Reed Switches

0. Limit Switches

Standard DJ825 comes with limit switches that shut off the motor automatically at the end of its travel.

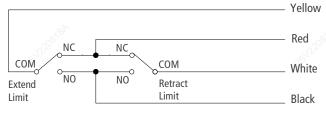


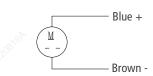
Wiring						
Black Red						
Extend	-	+				
Retract	18F +	-				

[Table 6]

1. Endstop Signal

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





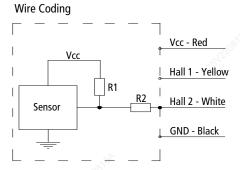
Power Wire Coding							
Brown Blue							
Extend	-	37					
Retract	+	-					
	Signal Wire Coding						
Black	Extend / Retrac	t limit, N.O.					
Red	Extend / Retrac	t limit, N.C.					
Yellow	Extend limit. COM.						
White 5	Retract limit. COM.						

[Table 7]

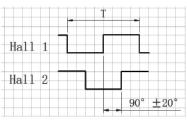
2. Hall Effect Sensor (standard dual-sensor)

Code	Pulse Equival	lent Per Sensor (pulse/mm)
code	1 pole pair	4 pole pairs (standard)
A	10.28	41.10
В	6.53 26.10	
С	4.35	17.40

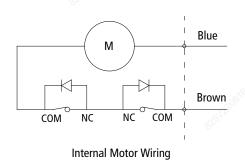
[Table 8]



* Power supply (V)= $5\sim15$



Oscillogram



3. Reed switch

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

Inquiry Table

RESET

Load & Speed See [Table 2]	25/7/28/8	Voltage	1 = 12VDC 2 = 24VDC 3 = 36VDC 4 = 48VDC	875/1208/84
Install. Length (mm) See page Table [3] - [6] Front Mount. End F01 - F09, or FX = Custom Rear Mount. End R01 - R04, or RX = Custom Mount. Hole Direction Front 1 = 90° 2 = 0° Rear 1 = 90° 2 = 0° Signal Feedback 0 = None 1 = Endstop Signal 2 = Hall Sensor 3 = Reed Switches Cable Length 1 = 500 mm 2 = 1,000 mm 3 = 2,000 mm X = Custom Connector 0 = Tinned Bared Wires X = Custom 1 = Match with KZ-series Controller Working Temperature 1 = -10 C to 65 C 2 = -40 C to 65 C Working Frequency Estimated cycles work per day Indoor or outdoor, and please describe your mechanical device. Company Your contact Name		Load & Speed	See [Table 2]	
Front Mount. End Rear Mount. End Ro1 - Ro4, or RX = Custom Mount. Hole Direction Front 1 = 90° 2 = 0° Rear 1 = 90° 2 = 0° Signal Feedback 0 = None 1 = Endstop Signal 2 = Hall Sensor 3 = Reed Switches Cable Length 1 = 500 mm 2 = 1,000 mm 3 = 2,000 mm X = Custom Connector 0 = Tinned Bared Wires X = Custom 1 = Match with KZ-series Controller Working Temperature 1 = -10 C to 65 C 2 = -40 C to 65 C Working Frequency Estimated cycles work per day Indoor or outdoor, and please describe your mechanical device. Company Name		Stroke (mm)	Please contact us if the stroke you required is out of range.	
Rear Mount. End R01 - R04, or RX = Custom Mount. Hole Direction Front 1 = 90° 2 = 0° Rear 1 = 90° 2 = 0° Signal Feedback 0 = None 1 = Endstop Signal 2 = Hall Sensor 3 = Reed Switches Cable Length 1 = 500 mm 2 = 1,000 mm 3 = 2,000 mm X = Custom Connector 0 = Tinned Bared Wires X = Custom 1 = Match with KZ-series Controller Working Temperature 1 = -10 C to 65 C 2 = -40 C to 65 C Working Frequency Estimated cycles work per day Indoor or outdoor, and please describe your mechanical device. Company Your contact Company Name	_	Install. Length (mm)	See page Table [3] - [6]	
Mount. Hole Direction Front 1 = 90° 2 = 0° Rear 1 = 90° 2 = 0° Signal Feedback 0 = None 1 = Endstop Signal 2 = Hall Sensor 3 = Reed Switches Cable Length 1 = 500 mm 2 = 1,000 mm 3 = 2,000 mm X = Custom Connector 0 = Tinned Bared Wires X = Custom 1 = Match with KZ-series Controller Working Temperature 1 = -10 C to 65 C 2 = -40 C to 65 C Working Frequency Estimated cycles work per day Indoor or outdoor, and please describe your mechanical device. Company Your contact Company Name		Front Mount. End	F01 - F09, or FX = Custom	
Signal Feedback 0 = None 1 = Endstop Signal 2 = Hall Sensor 3 = Reed Switches Cable Length 1 = 500 mm 2 = 1,000 mm 3 = 2,000 mm X = Custom Connector 0 = Tinned Bared Wires X = Custom 1 = Match with KZ-series Controller Working Temperature 1 = -10 °C to 65 °C 2 = -40 °C to 65 °C Working Frequency Estimated cycles work per day Indoor or outdoor, and please describe your mechanical device. End Use Company Your contact Name	1081/8	Rear Mount. End	R01 - R04, or RX = Custom	12 ²⁸ 18 ¹
Cable Length 1 = 500 mm 2 = 1,000 mm 3 = 2,000 mm X = Custom Connector 0 = Tinned Bared Wires X = Custom 1 = Match with KZ-series Controller Working Temperature 1 = -10 C to 65 C 2 = -40 C to 65 C Working Frequency Estimated cycles work per day Indoor or outdoor, and please describe your mechanical device. Company Your contact Name		Mount. Hole Direction	Front $1 = 90^{\circ}$ $2 = 0^{\circ}$ Rear $1 = 90^{\circ}$ $2 = 0^{\circ}$	F
Connector O = Tinned Bared Wires 1 = Match with KZ-series Controller Working Temperature 1 = -10 °C to 65 °C Working Frequency Estimated cycles work per day Indoor or outdoor, and please describe your mechanical device. Find Use Company Your contact Name		Signal Feedback	0 = None 1 = Endstop Signal 2 = Hall Sensor 3 = Reed Switches	
Working Temperature 1 = -10 C to 65 C 2 = -40 C to 65 C Working Frequency Estimated cycles work per day Indoor or outdoor, and please describe your mechanical device. End Use Company Your contact Name		Cable Length	1 = 500 mm 2 = 1,000 mm 3 = 2,000 mm X = Custom	
Working Frequency Estimated cycles work per day Indoor or outdoor, and please describe your mechanical device. End Use Company Your contact Name		Connector		
Indoor or outdoor, and please describe your mechanical device. End Use Company Your contact Name	1)5N	Working Temperature	1 = -10°C to 65°C	8151212818F
End Use Company Your contact Name		Working Frequency	Estimated cycles work per day	
Company Your contact Name	Application	End Use	Indoor or outdoor, and please describe your mechanical device.	
Tel. Email	-	Your contact		~~

Terms of Use

Due to our continuous improving of HB products, Hongba reserves the right to change or modify our products without prior notice, at any time. Therefore, Hongba cannot guarantee the correct and actual status of said information on its products. The user is responsible for determining the suitability of HB products for specific application.

Wuxi Hongba Mechanical Electrical Equipment. Co., Ltd.

Cell: Email:

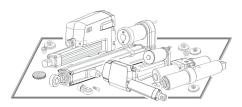
Tel.: 0510-85436730 Website: hbactuator.com

Address: 5 Lijiang Rd. Xinwu District, Wuxi 214028 China

Quantum You may also be interested in...

Model	Load (N)	Stroke (mm)	Speed (mm/s)	Install.Length (mm)	Overall Size (mm)	IP rate	Application
DJ803 (Track)	1,500	50-600	16-32	¹ 155	155 x 77.4 x L	IP20	Furniture
DJ823	3,000	50-600	5.0-15	S+155	148.5 x 80 x L	IP54	Furniture Medical Care
DJ810	4,000	50-600	5.0-32	S+150	156 x 83 x L	IP43	Furniture Medical Care
DJ801	6,000	50-600	4.7-28	S+175	156 x 83 x L	IP43	Furniture Medical Care
DJ822	6,000	50-600	5.0-16	S+175	166 x 91 x L	IP54	Furniture Medical Care
DJ806	1,200	50-600	5.5-80	S+105	40 x 75 x L	IP66	Industrial
DJ809	2,000	50-600	5.0-55	S+108	45 x 77.5 x L	IP66	Industrial
* DJ825	2,000	50-600	6-15	S+115	43 x 84.5 x L	IP66	Furniture Medical Care Industrial
DJ820	2,500	50-600	2.5-22	S+120	64.5 x 102 x L	IP66	Furniture Medical Care Industrial
DJ820P	1,000	50-600	25-50	S+140	64.5 x 102 x L	IP66	Industrial
DJ830	4,000	50-600	5.5-35	S+200	76 x 151 x L	IP65	Industrial
DJ830P	7,000	50-600	5.5-35	S+200	76 x 151 x L	IP65	Industrial
DJ808	7,000	50-600	5.5-35	S+250	77 x 151 x L	IP65	Industrial
DJ805G	12,000	50-1,000	6.5-37	S+200	102 x 154 x L	IP66	Industrial

^{*} You are now reading...



For more information, please visit our website $\ensuremath{\mathsf{hbactuator.com}}$