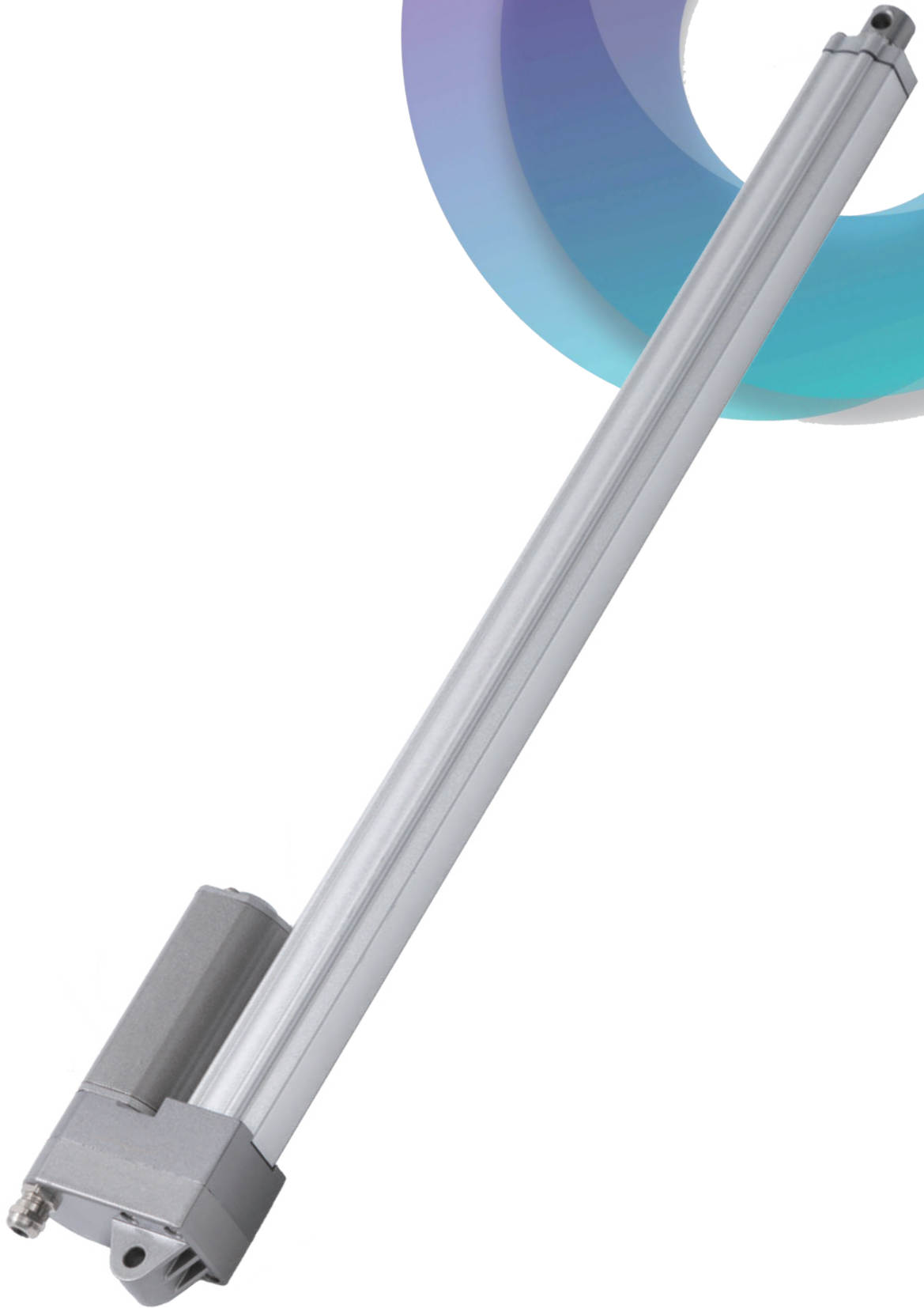


# 17SH825

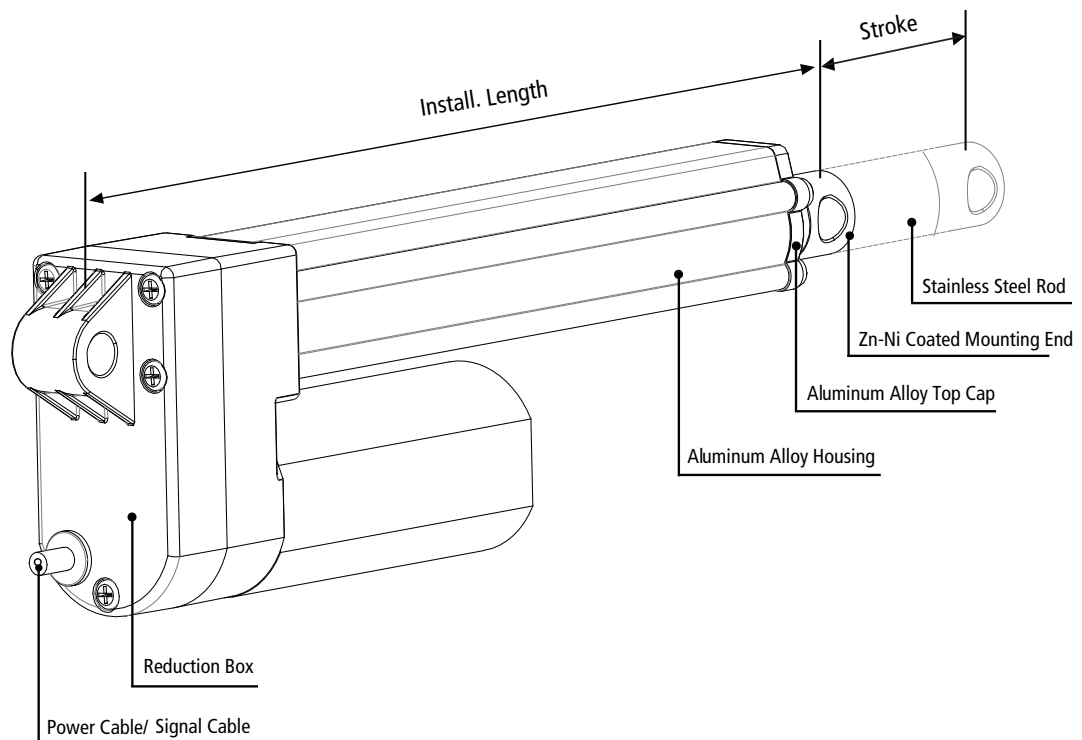
Data Sheet



**Contents**

- 11** Other Models
- 10** Inquiry Table
- 09** Position Feedback
- 08** Dimension
- 07** Rear Mount. End
- 06** Front Mount. End
- 05** Chart of Load, Speed and Current
- 04** Configs. Load & Speed
- 03** Definition of Terms

## 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	Continuous working time 'a', rest time 'b'. Duty cycle is $a/(a+b) \times 100\%$ . 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	<input checked="" type="checkbox"/> Silver	<input type="checkbox"/> Black	<input type="checkbox"/> Customized			
Lead Screw	<input checked="" type="checkbox"/> Acme Screw	<input type="checkbox"/> Ball Screw				
Operation Mode	<input checked="" type="checkbox"/> Electrical	<input type="checkbox"/> Electrical + Manual				
Application	<input checked="" type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Furniture	<input checked="" type="checkbox"/> Medical			
Operational Temp.	<input type="checkbox"/> 5 to 40°C	<input checked="" type="checkbox"/> -10 to 65°C	<input checked="" type="checkbox"/> -40 to 65°C			
Operating Noise	<input checked="" type="checkbox"/> ≤45 dB	<input type="checkbox"/> ≤50 dB	<input type="checkbox"/> ≤65 dB			
Stroke Range	<input checked="" type="checkbox"/> 50-600mm	<input type="checkbox"/> 600-1,000mm				
Dynamic Load	<input type="checkbox"/> ≤1,200N	<input checked="" type="checkbox"/> ≤2,000N	<input type="checkbox"/> ≤4,000N	<input type="checkbox"/> ≤7,000N	<input type="checkbox"/> ≤12,000N	<input type="checkbox"/> ≤20,000N
Duty Cycle	<input type="checkbox"/> 10%	<input checked="" type="checkbox"/> 20%*	<input type="checkbox"/> 25%	<input type="checkbox"/> 50%	<input type="checkbox"/> 100%	
Motor Type	<input checked="" type="checkbox"/> Brushed DC	<input type="checkbox"/> Stepper Motor	<input type="checkbox"/> Brushless	<input type="checkbox"/> Servo Motor		
Overload Protection	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Clutch	<input type="checkbox"/> Electronic	<input type="checkbox"/> Thermistor		
Weather Protection	<input type="checkbox"/> IP20	<input type="checkbox"/> IP43	<input type="checkbox"/> IP54	<input type="checkbox"/> IP65	<input checked="" type="checkbox"/> IP66	
Position Feedback	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Endstop Signal	<input checked="" type="checkbox"/> Hall Sensor	<input type="checkbox"/> Potentiometer	<input type="checkbox"/> Encoder	<input checked="" type="checkbox"/> Reed Switches
Input Voltage	<input checked="" type="checkbox"/> 12VDC	<input checked="" type="checkbox"/> 24VDC	<input checked="" type="checkbox"/> 36VDC	<input checked="" type="checkbox"/> 48VDC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 220VAC



\* Don't exceed two minutes continuous working when with full load and 20°C.

Options for 17SH825  Other Models

[ Table 1 ]

## Parameters

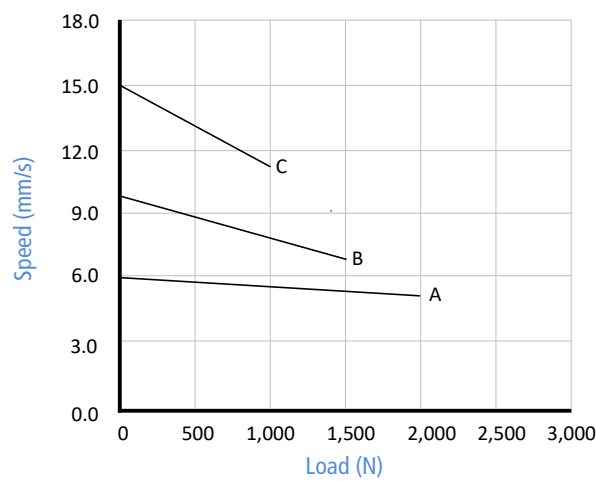
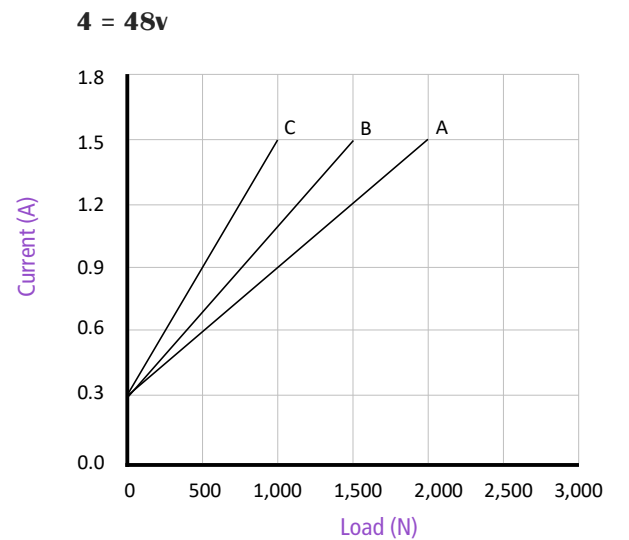
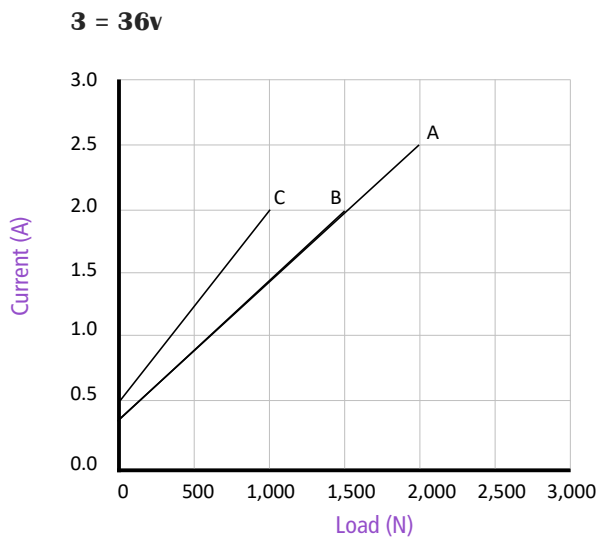
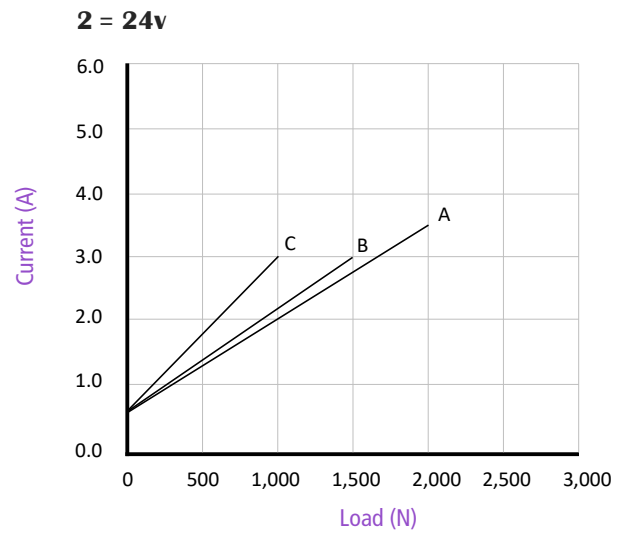
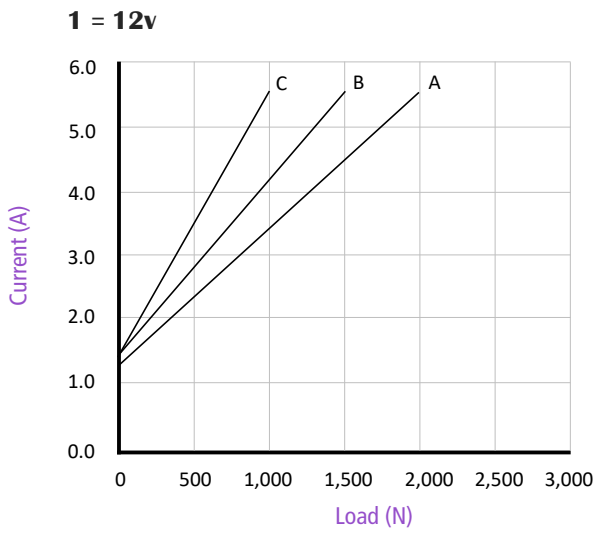
Fill in code:

Code	Max. Dynamic Load <sup>②</sup>	Max. Self-locking	Reduction Ratio	Pitch	Speed ±10% <sup>①</sup> (mm/s)		Max. Stroke <sup>③</sup>
	(N)				(N)	-	(mm)
A	2,000	3,000	32.6:1	3.17	6.0	5.0	600
B	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 ]

**Charts**

Fill in code:

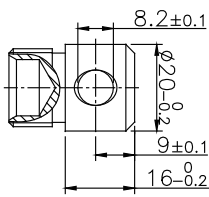


\* Measurements are made with actuators in connection with stable power supplies and ambient temperature at 20°C.

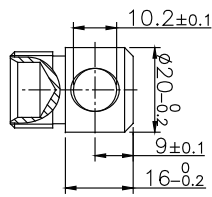
**Front Mounting End**

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

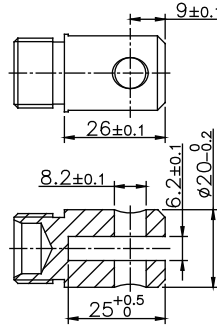
Fill in code:



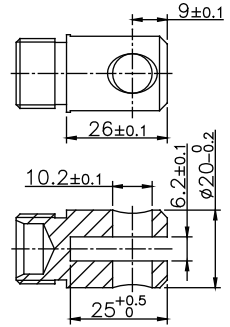
F01



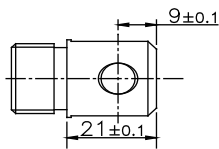
F02



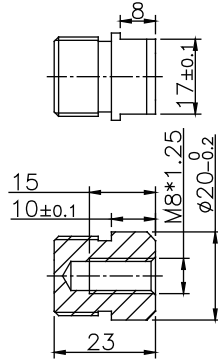
F03



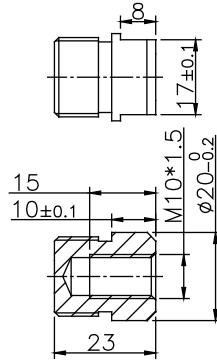
F04



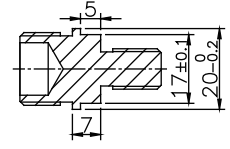
F05



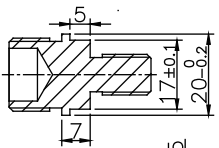
F06



F07

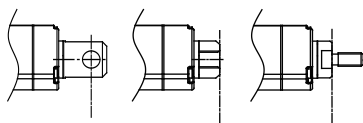


F08

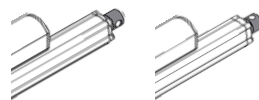


F09

2. Start of Installation Length



3. Hole Directions



1 = 90°

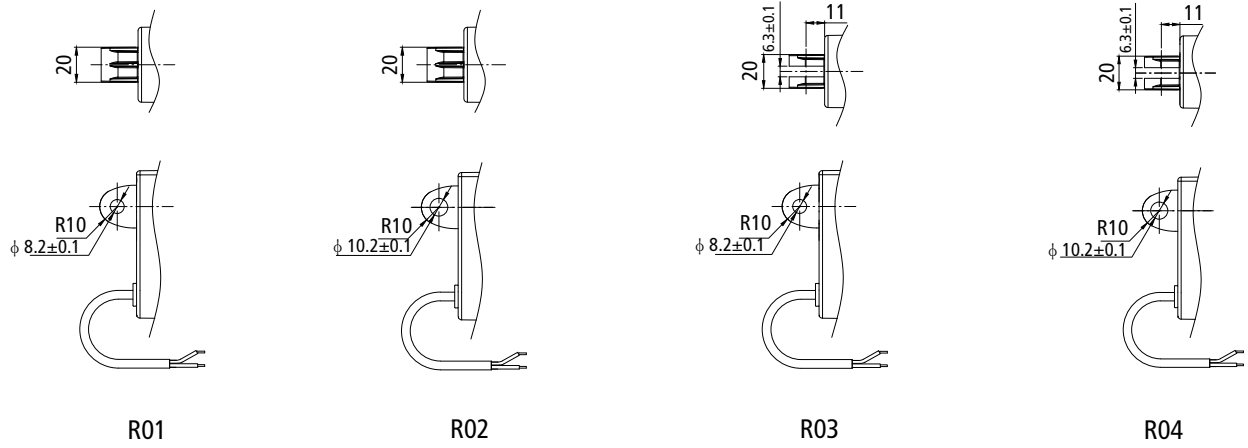
2 = 0°

Fill in code:

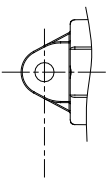
**Rear Mounting End**

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

Fill in code:

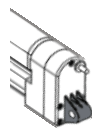


2. End of Installation Length

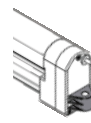


3. Hole Directions

Fill in code:



1 = 90°



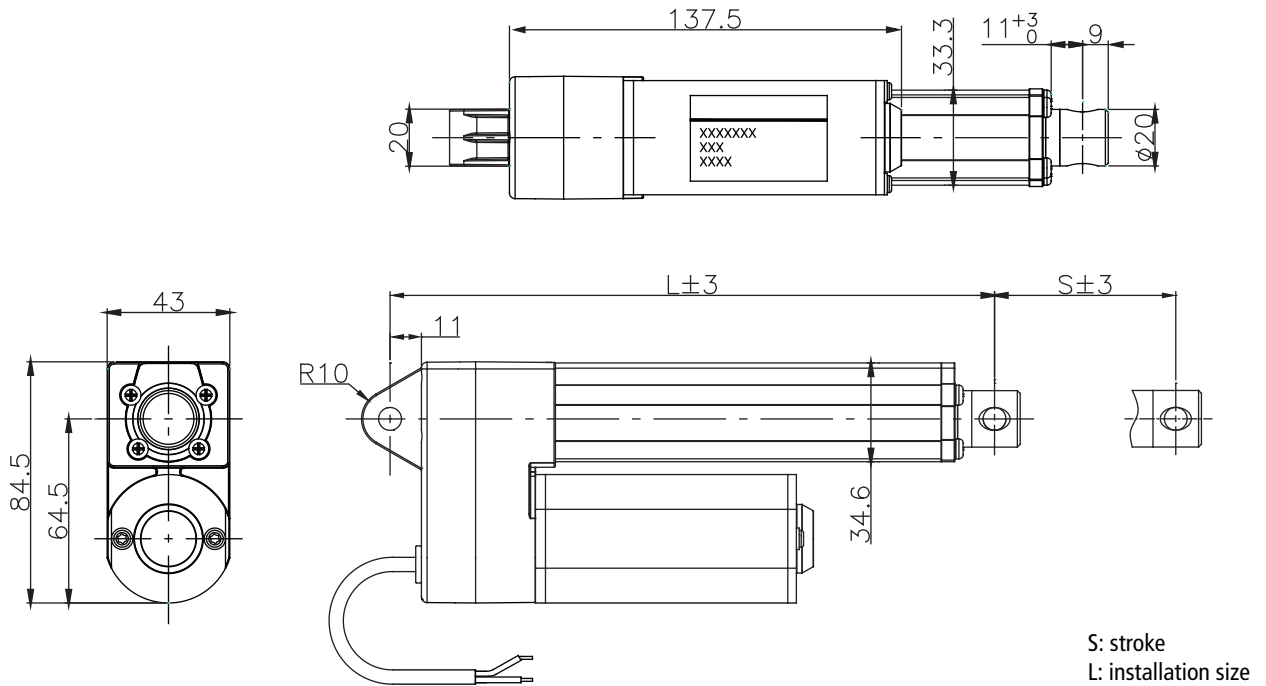
2 = 0°

\* not applied to R01 & R02

**Dimension**

S =            mm, L =            mm

**1. Overall Size**



**2. Installation Size (L≥A+B+C)**

<b>A. Mounting Ends</b>	Rear Ends
Front Ends	R01- R04
F01, F02, F05-F09	S+115
F03, F04	S+123

[Table 3]

<b>B. Stroke Range</b>	mm
30 - 299	+ 0
300 - 499	+ 30
≥ 500	+ 60

[Table 4]

<b>C. Reed Switch</b>	mm
Optional	+ 10

[Table 5]

**Example**

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

[Table 6]

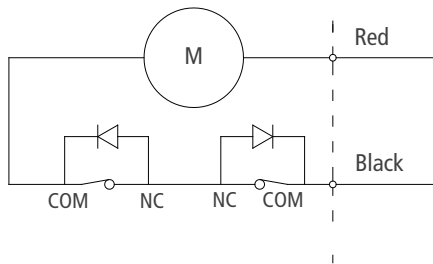


**Signal Feedback**

Fill in code: 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.

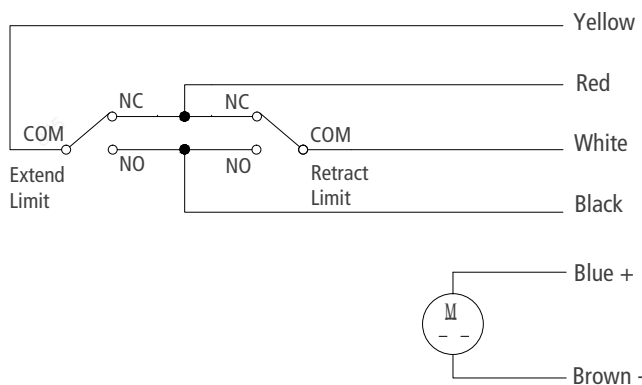


Wiring		
	Black	Red
Extend	-	+
Retract	+	-

[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	-	+
Retract	+	-

Signal Wire Coding	
Black	Extend / Retract limit, N.O.
Red	Extend / Retract limit, N.C.
Yellow	Extend limit. COM.
White	Retract limit. COM.

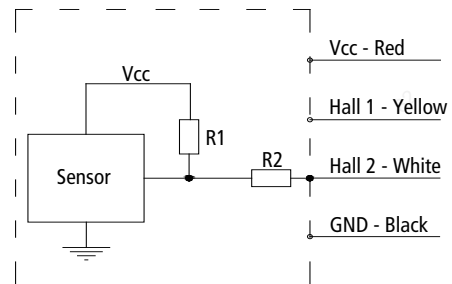
[Table 7]

**2. Hall Effect Sensor (standard dual-sensor)**

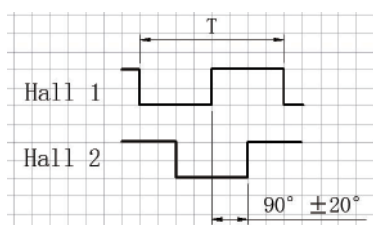
Code	Pulse Equivalent Per Sensor (pulse/mm)	
	1 pole pair	4 pole pairs (standard)
A	10.28	41.10
B	6.53	26.10
C	4.35	17.40

[Table 8]

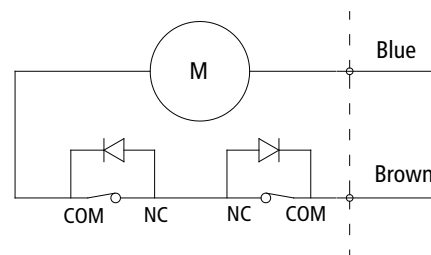
**Wire Coding**



\* Power supply (V)= 5~15



Oscillogram




Internal Motor Wiring

**3. Reed switch**

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



 You may also be interested in...

Model	Load (N)	Stroke (mm)	Speed (mm/s)	Install.Length (mm)	Overall Size (mm)	IP rate	Application
17SH803 (Track)	1,500	50-600	16-32	155	155 x 77.4 x L	IP20	Furniture
17SH823	3,000	50-600	5.0-15	S+155	148.5 x 80 x L	IP54	Furniture Medical Care
17SH810	4,000	50-600	5.0-32	S+150	156 x 83 x L	IP43	Furniture Medical Care
17SH801	6,000	50-600	4.7-28	S+175	156 x 83 x L	IP43	Furniture Medical Care
17SH822	6,000	50-600	5.0-16	S+175	166 x 91 x L	IP54	Furniture Medical Care
17SH806	1,200	50-600	5.5-80	S+105	40 x 75 x L	IP66	Industrial
17SH809	2,000	50-600	5.0-55	S+108	45 x 77.5 x L	IP66	Industrial
* 17SH825	2,000	50-600	6-15	S+115	43 x 84.5 x L	IP66	Furniture Medical Care Industrial
17SH820	2,500	50-600	2.5-22	S+120	64.5 x 102 x L	IP66	Furniture Medical Care Industrial
17SH8200	1,000	50-600	25-50	S+140	64.5 x 102 x L	IP66	Industrial
17SH830	4,000	50-600	5.5-35	S+200	76 x 151 x L	IP65	Industrial
17SH8300	7,000	50-600	5.5-35	S+200	76 x 151 x L	IP65	Industrial
17SH808	7,000	50-600	5.5-35	S+250	77 x 151 x L	IP65	Industrial
17SH805F	12,000	50-1,000	6.5-37	S+200	102 x 154 x L	IP66	Industrial

\* You are now reading...