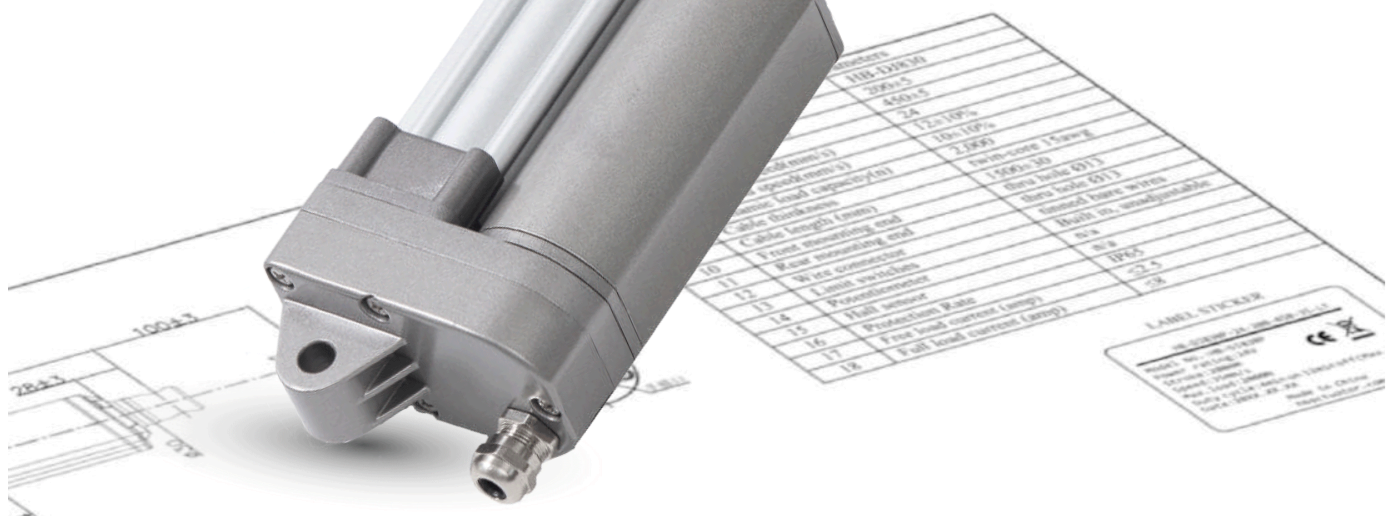
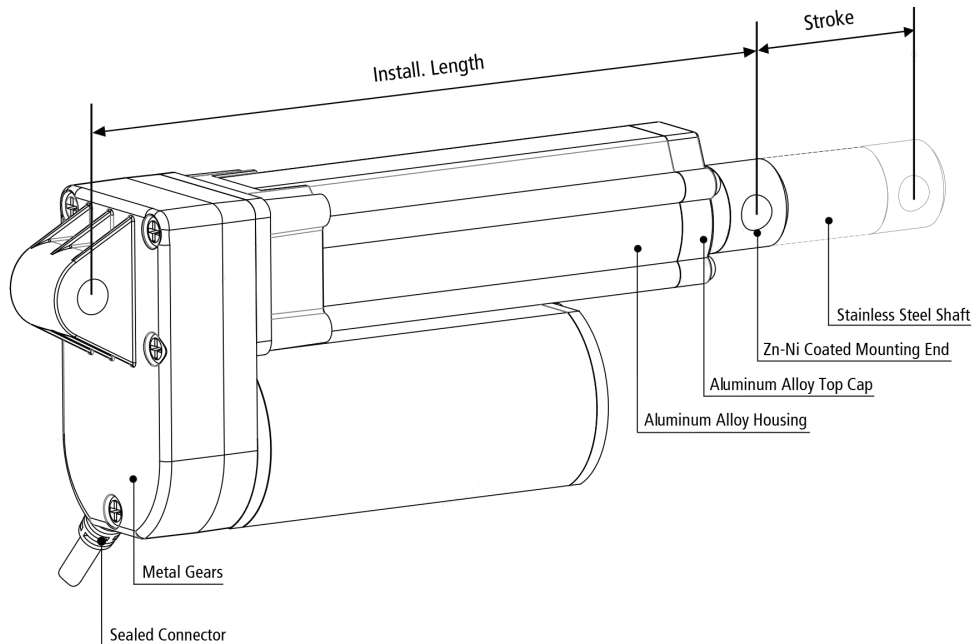


# PEACO-DJ809

## Data Sheet




## 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 type="checkbox"/> Furniture	<input type="checkbox"/> Medical			
Operational Temp.	<input type="checkbox"/> 5 to 40℃	<input checked="" type="checkbox"/> -10 to 65℃	<input checked="" type="checkbox"/> -40 to 65℃			
Operating Noise	<input type="checkbox"/> ≤45 dB	<input type="checkbox"/> ≤50 dB	<input checked="" type="checkbox"/> ≤65 dB			
Stroke Range	<input checked="" type="checkbox"/> 50-600mm	<input checked="" 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 type="checkbox"/> 20%	<input checked="" 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 checked="" 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 four minutes continuous working at full load with 20℃.

☒ Options for DJ809 ☐ Other Models

[ Table 1 ]

## Parameters

Fill in code:

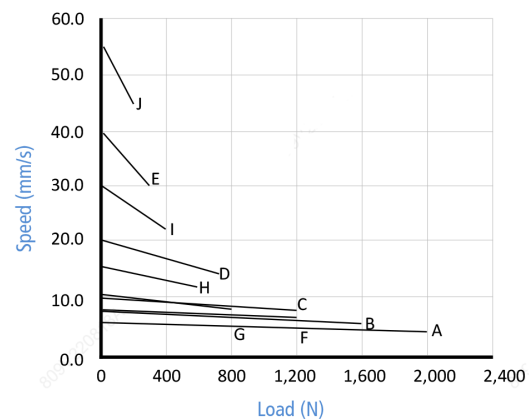
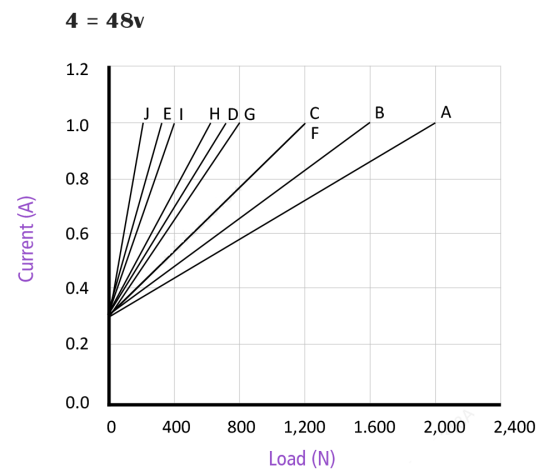
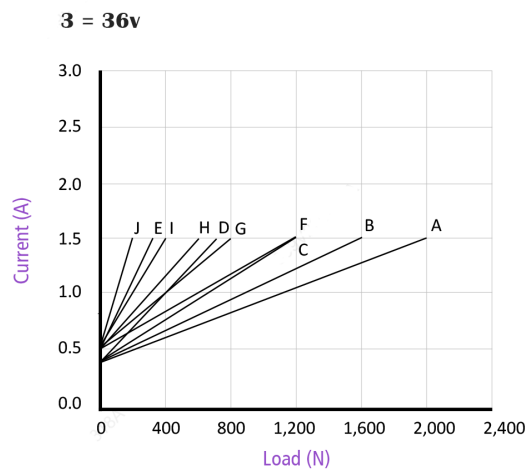
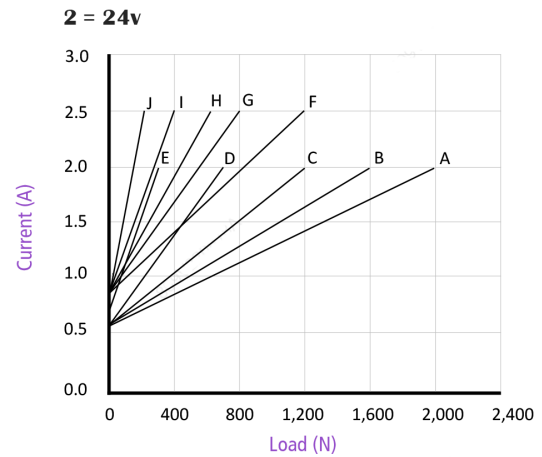
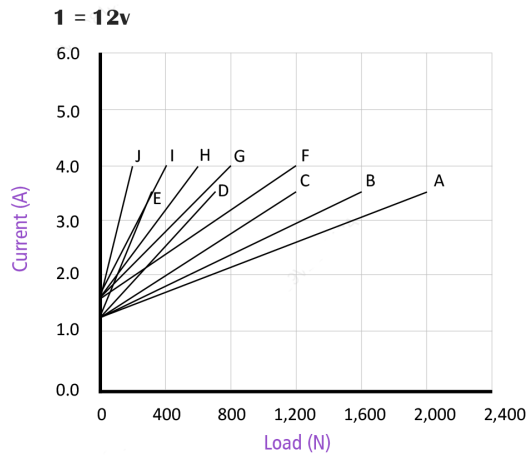
Code	Max. Dynamic Load <sup>②</sup>	Max. Self-locking	Reduction Ratio	Pitch	Speed±10% <sup>①</sup> (mm/s)		Max. Stroke w/o Pot. <sup>③</sup>	Max. Stroke with Pot. <sup>③</sup>
	(N)	(N)	-	(mm)	Free Load	Full Load	(mm)	(mm)
A	2,000	3,000	40:1	3.17	5	4	1,000	200
B	1,600	2,200	30:1	3.17	7	5.5	1,000	200
C	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
H	600	800	20:1	5	15	11	1,000	300
I	400	600	10:1	5	30	22	1,000	300
J	200	300	5:1	5	55	45	1,000	300

[ Table 2 ]

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

## Charts

Fill in code:

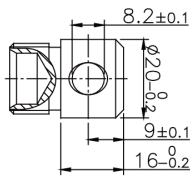


\* Measurements are made with actuators in connection with stable power supplies and ambient temperature at 20°C.

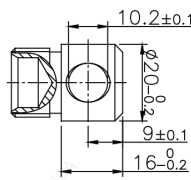
## Front Mounting End

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

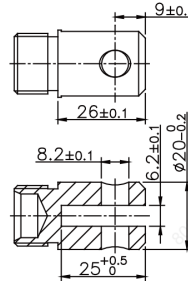
Fill in code:



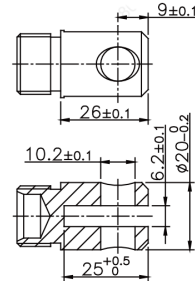
F01



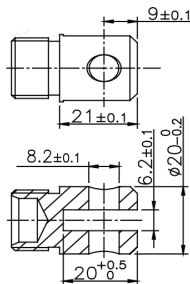
F02



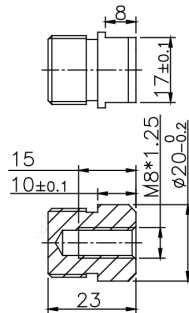
F03



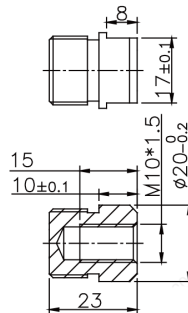
F04



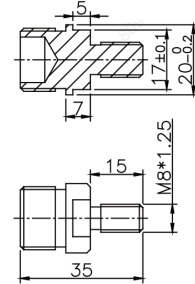
F05



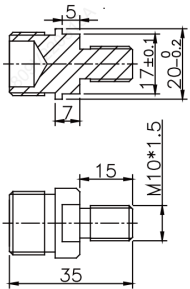
F06



F07

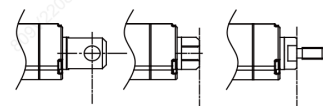


F08



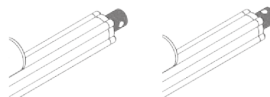
F09

2. Start of Installation Length



3. Hole Directions

Fill in code:



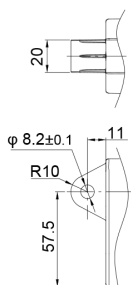
1 = 90°

2 = 0°

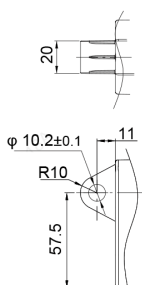
## Rear Mounting End

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

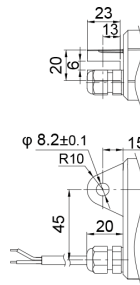
Fill in code:



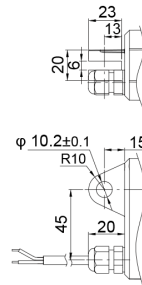
R01



R02

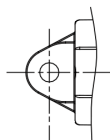


R03



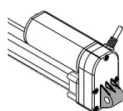
R04

2. End of Installation Length

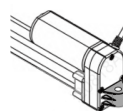


3. Hole Directions

Fill in code:



1 = 90°



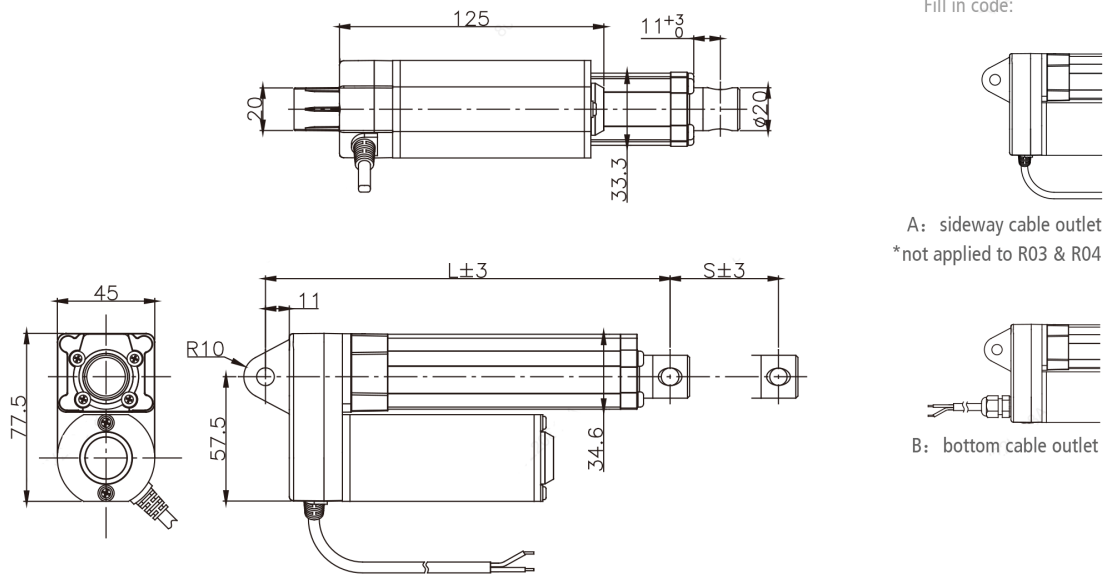
2 = 0°

\* not applied to R03 & R04

## Dimension

S =                      mm, L =                      mm

### 1. Overall Size [w/o Potentiometer]



### 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
30 - 299	+ 0
300 - 399	+ 12
≥ 400	+ 22

[Table 4]

C. Reed Switch	mm
Optional	+ 10

[Table 5]

#### Example

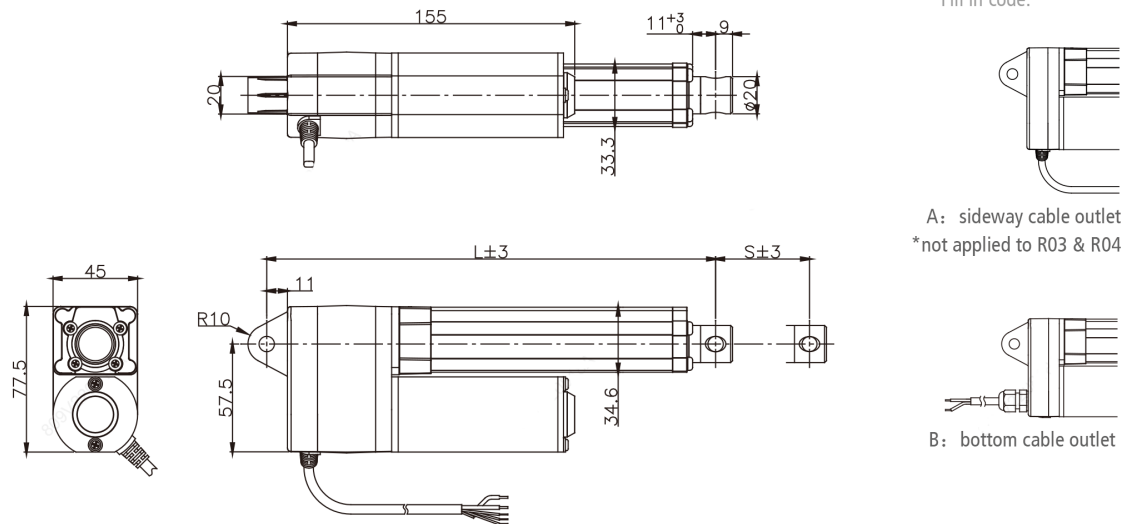
Front Mount. End	Rear Mount. End	Stroke	A	B	w/o Reed Switch	L≥A+B+C
F04	R01	300	300+115	+12	C = 0	≥ 427

[Table 6]

## Dimension

S =                      mm, L =                      mm

### 1. Overall Size [with Potentiometer]



### 2. Installation Size ( $L \geq A+B+C$ )

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
30 - 300	+ 0

[Table 8]

C. Reed Switch	mm
Optional	+ 10

[Table 9]

#### Example

Front Mount. End	Rear Mount. End	Stroke	A	B	w/o Reed Switch	$L \geq A+B+C$
F04	R01	300	300+147	+0	C = 0	$\geq 447$

[Table 10]



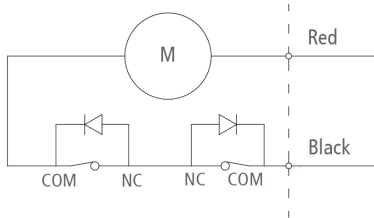
## Signal Feedback

Fill in code:

- 0 = None
- 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.

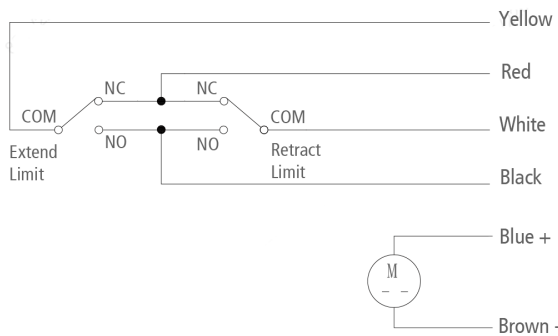


Wiring		
	Black	Red
Extend	-	+
Retract	+	-

[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.

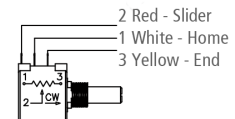
[Table 12]

### 2. Potentiometer

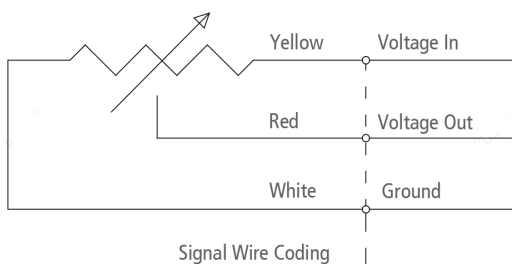
Code	Max. Stroke	Resistance Value per mm
A, B, C, D, E	200 mm	0.047K $\Omega$
F, G, H, I, J	300 mm	0.030K $\Omega$

\* Start value 0K  $\Omega$

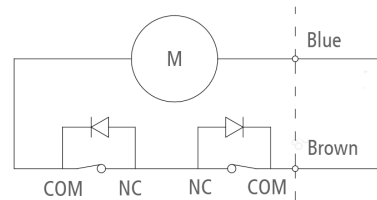
[Table 13]



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



Signal Wire Coding



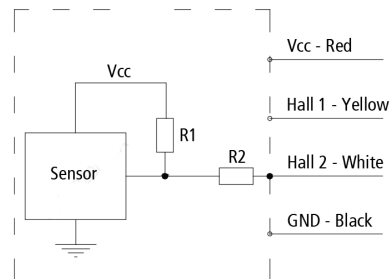
Internal Motor Wiring

## 3. Hall Sensor (standard dual-sensor)

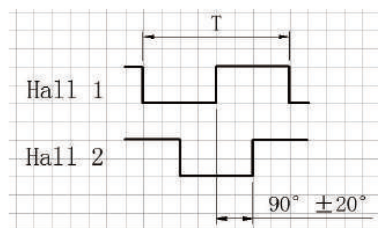
	Pulse Equivalent Per Sensor (pulse/mm)	
	1 pole pair	4 pole pairs (standard)
A	12.60	50.40
B	9.45	37.80
C	6.30	25.20
D	3.15	12.60
E	1.57	6.30
F	8.00	32.00
G	6.00	24.00
H	4.00	16.00
I	2.00	8.00
J	1.00	4.00

[Table 14]

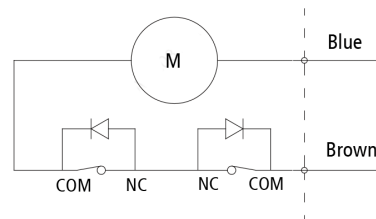
Wire Coding



\* Power supply (V)= 5~15V



Oscillogram



Internal Motor Wiring

## 4. Reed switch

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



	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°	2 = 0°	Rear 1 = 90°	2 = 0°
	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 Outlet B = Bottom Cable Outlet		0 = Tinned Bared Wires 1 = Match with KZ-series Controller X = Custom	
	Working Temperature	1 = -10 °C to 65 °C		2 = -40 °C to 65 °C	
Application	Working Frequency	Estimated cycles work per day			
	End Use	Indoor or outdoor, and please describe your end use.			
	Your contact	Company			
		Name		Email	
		Tel.			