

LJ9DA(Linear Servo) Technical Specification

Update Number

(THIS DATA IS JUST A REFERENCE. IT IS NOT A GUARANTEED DATA.)

160309-01

Item		Specification				Remark		
1	Communication Interface	PWM				Signal Voltage:V	HIGH : min. 3.0V max. Vcc	
							LOW : min. 0.0V max. 0.45V	
						Frame Rate:T	3.0~30ms (Default 14.25ms)	
						Retract/Center/Extend :Td	2120/1520/920 μs (Resolution recommends less than 1 μs.)	
		S.BUS				Futaba Serial Protocol (Please ask us for more information.)		
		RS485				Command control (Half-duplex communication, Baud Rate 9.6~460.8kbps) (Please ask us for more information.)		
2	Rated Voltage	DC 11.1~DC 14.8V				-		
3	Operating Voltage	DC 9.0~DC 16.8V				-		
4	Standby Current	≤ 60mA				at 11.1V		
5	Consumption Current*	LL	Me	UL	unit	at 11.1V , No-Load		
		140	240	340	mA	LL : Low Limit Me : Medium Value UL : Upper Limit		
6	Max. Force*	LL	Me	UL	unit	at 11.1V		
		26.5	36.7	—	kgf			
		260	360	—	N			
		934.8	1294.6	—	ozf			
7	Rated Force*	LL	Me	UL	unit	at 11.1V		
		5.3	7.3	—	kgf	20% of Max. Force.		
		52.0	72.0	—	N			
		187.0	258.9	—	ozf			
8	No Load Speed*	LL	Me	UL	unit	at 11.1V		
		2.6	3.0	3.4	inch/s			
		65	75	85	mm/s			
9	Stroke Length	1.97 inch (50mm)				0 inch (0mm) / 2120 μs 0.98 inch (25mm) / 1520μs 1.97 inch (50mm) / 920μs		
10	Operating Temperature Range	-10~+60°C (14~140°F)				-		
11	Storage Temperature Range	-30~+80°C (-22~176°F)				-		
12	Outer Dimension	7.8 x 2.0 x 3.9 inch (197.6 x 51.1 x 99.3mm)				Except for the cable and the moving part.		
13	Weight	25.4oz (720g)				-		
14	Case Material	Gear Box : PBT+PC-GF30 Heat Sink : AL				-		
15	Gear/Screw Set Material	1st,3rd : Metal 2nd : Synthetic Resin Ball Screw : Metal				-		
16	Cable	Shielded Cable				Cable Length : 15.75 inch (400mm)		
17	Connector	Manufacture	J.S.T. Mfg. Co., Ltd					
		Type	08T-JWPF-VSLE-D					
		Mating	08R-JWPF-VSLE-D etc.					
		Pin Assignment	1	Brown	Position			
			2	Yellow	Position Feedback-			
			3	Green	RS485 A(D+)			
			4	Blue	RS485 B(D-)			
			5	white	PWM / S.BUS			
			6	Red	Battery(+)			
7	Black		Battery(-)					
8	Gray		Cable Shield Line					

* At 23±5°C (Initial Performance Data)

All Specifications are subject to change without prior notice.

Caution

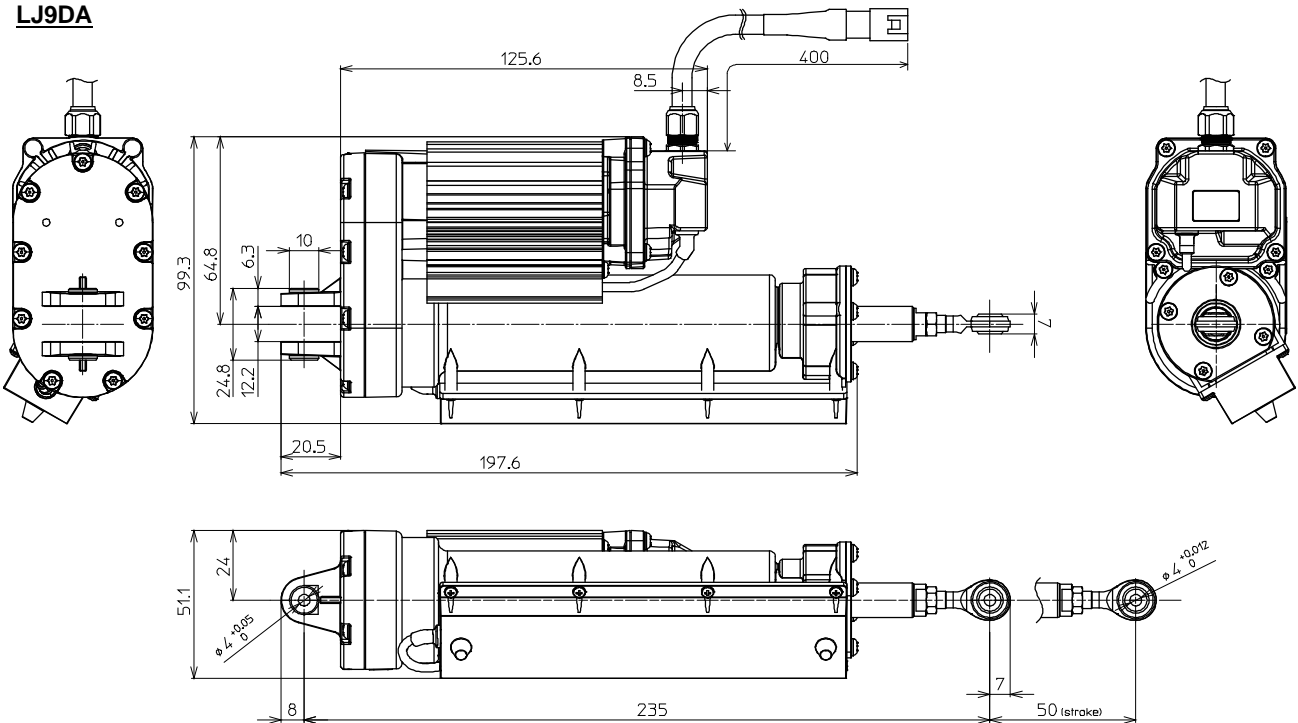
This product SHOULD NOT be used for the devices that is directly related to human life and/or harmful devices for human body such as below applications.

- (1)Medical Devices
- (2)Aerospace/Aviation Related Devices
- (3)Nuclear Related Devices e.t.c.

Outer Dimension

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(Unit mm)

Analog Feedback

