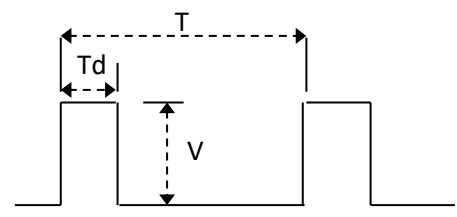
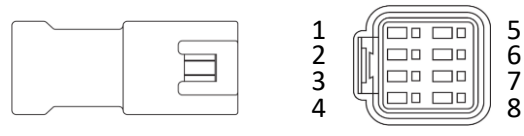
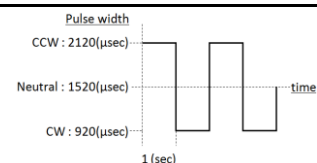


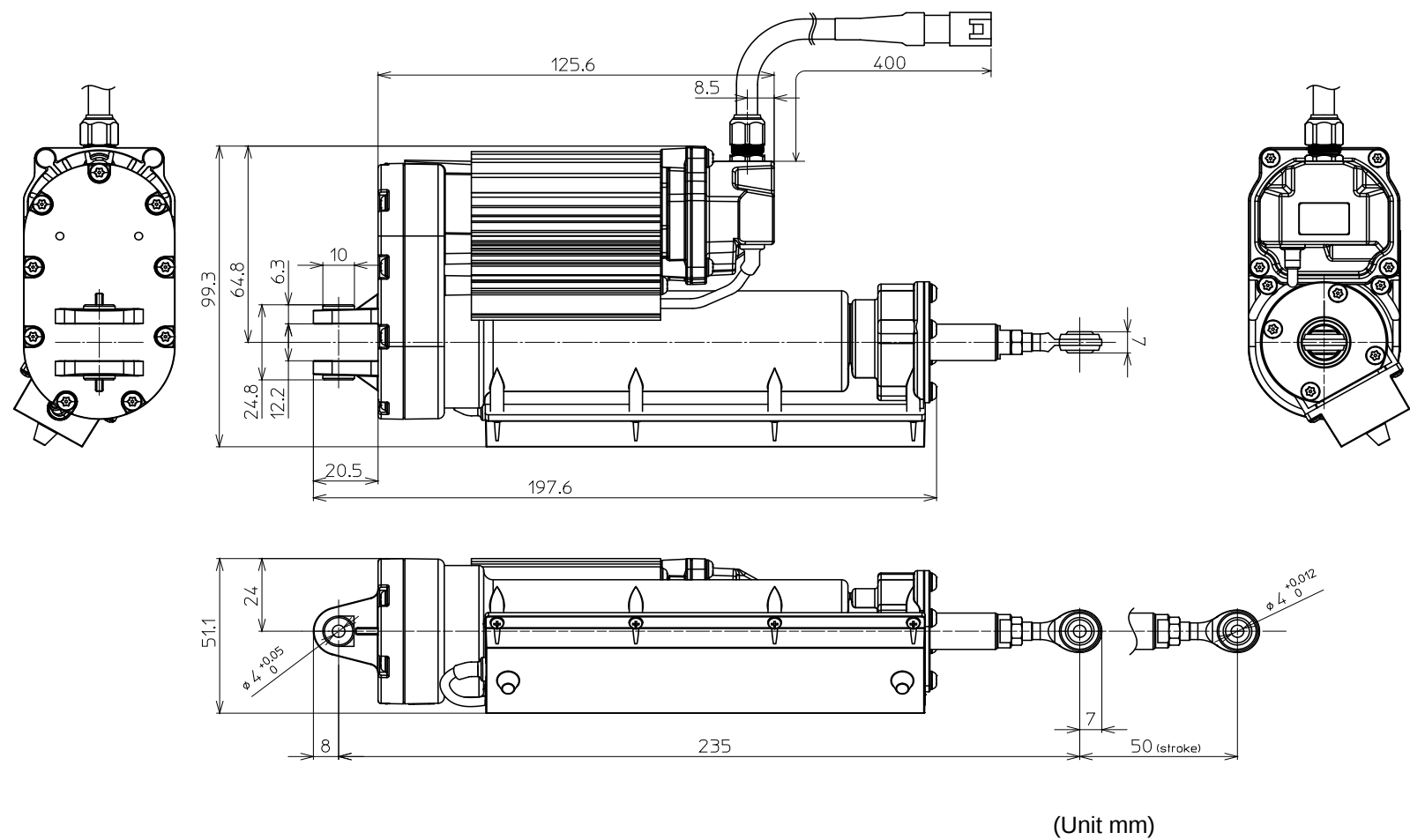
LJ9DA41(Linear Servo) Technical Specification

	Item	Specification				Remark	
1	Communication Interface	PWM				Signal Voltage:V	HIGH : min. 2.0V max. Vcc LOW : min. 0.0V max. 0.45V
						Frame Rate:T	3.0~30ms (Default 14.25ms)
						CW/Center/CCW:Td	920/1520/2120μs (Resolution recommends less than 1μs.)
							
		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	Motor Type	Brushed Motor					
3	Position Sensor	Precision Potentiometer					
4	Rated Voltage	11.1~14.8V DC				—	
5	Operating Voltage	9.0~16.8V DC				—	
6	Standby Current	≤ 70mA				at 14.8V	
7	Consumption Current*	LL	Me	UL	unit	at 14.8V , No-Load	
		160	260	360	mA	LL : Low Limit Me : Medium Value UL : Upper Limit	
8	Max. Force*	LL	Me	UL	unit	at 14.8V	
		38.7	48.9	59.1	kgf		
		380	480	580	N		
		1365	1725	2085	ozf		
9	Rated Force*	LL	Me	UL	unit	at 14.8V 20% of Max. Force.	
		9.8			kgf		
		96			N		
		345			ozf		
10	No Load Speed*	LL	Me	UL	unit	at 14.8V	
		3.74	4.13	4.53	inch/s		
		95	105	115	mm/s		
11	Stroke Length	1.97 inch (50mm)				0.98 inch (25mm) / 920μs 0 inch (0mm) / 1520μs -0.98 inch (-25mm) / 2120μs	
12	Operating Temperature Range	-10~+60°C (14~140°F)				—	
13	Storage Temperature Range	-30~+80°C (-22~176°F)				—	
14	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.	
15	Weight	25.4oz (720g)				—	
16	Case Material	Gear Box : Resin Heat Sink : AL				—	
17	Gear/Screw Set Material	1st,3rd : Metal 2nd : Resin Ball Screw : Metal				—	
18	Cable	Shielded Cable				Cable Length : 15.75 inch (400mm)	
19	Connector	Manufacture	J.S.T. Mfg. Co., Ltd				
		Type	08T-JWPF-VSLE-D				
		Mating	08R-JWPF-VSLE-D etc.				
		Pin Assignment	1	Brown	Position Feedback+		
			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					
20	Water Resistance	IP 64				—	
21	MTTF	200h (14.8V)				Test Condition • Load : 20% of max force • Operating Condition : 0.5Hz sweep (±25mm) • Input Pluse : PWM 	
22	Vibration Resistance *	Operating time ≥ 100 cycle(sweep) (at 14.8V)				Test Condition	
						Frequency range	10 to 500Hz
						Sweep Rate	1 oct/min
						Acceleration	5G (50m/s ²)
						Vibration axis	X , Y , Z

* Initial Performance Data at 23±5°C

All Specifications are subject to change without prior notice.**Caution****•This product SHOULD NOT been used for the devices that is directly related to human life.**

Outer Dimension



Position Feedback

