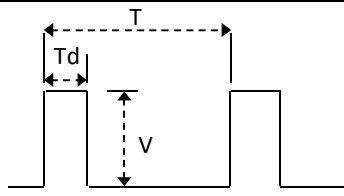
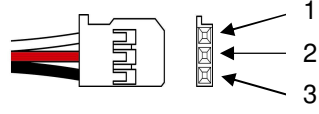
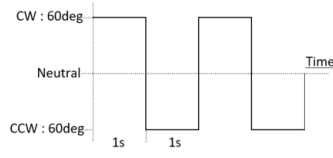


AJ1FG Technical Specification

 Update Number
210225-01

Item		Specification				Remark	
1	Communication Interface	PWM				Signal Voltage:V	HIGH : min. 1.5V max. Vcc
						Frame Rate:T	3.0~30ms
						CW/Center/CCW:Td	920/1520/2120μs (Resolution recommends less than 1μs.)
							
		S.BUS				Futaba Serial Protocol (Please ask us for more information.)	
2	Rated Voltage	4.8~6.0V DC				—	
3	Standby Current	≤ 30mA				at 4.8~6.0V	
4	Consumption Current*	LL	Me	UL	unit	at 6.0V No-Load	
		50	100	150	mA	LL : Low Limit Me : Medium Value UL : Upper Limit	
5	Max. Torque*	LL	Me	UL	unit	at 6.0V	
		19.6	24.5	29.4	kgf-cm		
		1.9	2.4	2.9	N-m		
		272.2	340.2	408.3	ozf-in		
6	Rated Torque*	LL	Me	UL	unit	at 6.0V 10% of Max. Torque	
		2.0	2.5	2.9	kgf-cm		
		0.2	0.2	0.3	N-m		
		27.2	34.0	40.8	ozf-in		
7	No Load Speed*	LL	Me	UL	unit	at 6.0V	
		0.14	0.17	0.20	sec/60°		
		300.0	352.9	428.6	°/sec		
		50.0	58.8	71.4	rpm		
8	Default Travel Angle	CW 60° (920μs) CCW 60° (2120μs)				A programming tool (CIU-2 or CIU-3, S-Link) is required to reverse the rotation direction.	
9	BackLash*	≤ 0.5°				—	
10	Operating Temperature Range	-10~+45°C (14~113°F)				—	
11	Storage Temperature Range	-20~+60°C (-4~140°F)				—	
12	Outer Dimension	1.58 x 0.79 x 1.44 inch (40.0 x 20.0 x 36.6mm)				—	
13	Weight	2.22oz (63g)				With Horn and screw	
14	Case Material	Upper : Resin / Middle : Resin / Bottom : Resin				—	
15	Gear Set Material	1st : Resin / 2nd,3rd,4th(Final) : Metal				—	
16	Cable	Non-Shielded Cable				Cable Length : 11.81 inch (300mm)	
17	Connector	Manufacture	J.A.M. Co., Ltd.				
		Type	FC25-03HG				
		Mating	FC25-03M etc.				
		Pin Assignment	1	White	PWM		
			2	Red	Vcc		
18	MTTF	≥ 700h (TBC)				Angle Command Value Operating Condition • at 6.0V • ±60°, 0.5Hz sweep Test Condition • Load : 2.45 kgf•cm 	
19	Vibration Resistance *	Operating time ≥ 100h (at 6.0V)				Test Condition	
						Frequency range	80 to 400Hz
						Acceleration	30G (294m/s ²)
						Sweep rate	1.2 min / single-sweep
						Vibration axis	X, Y, Z

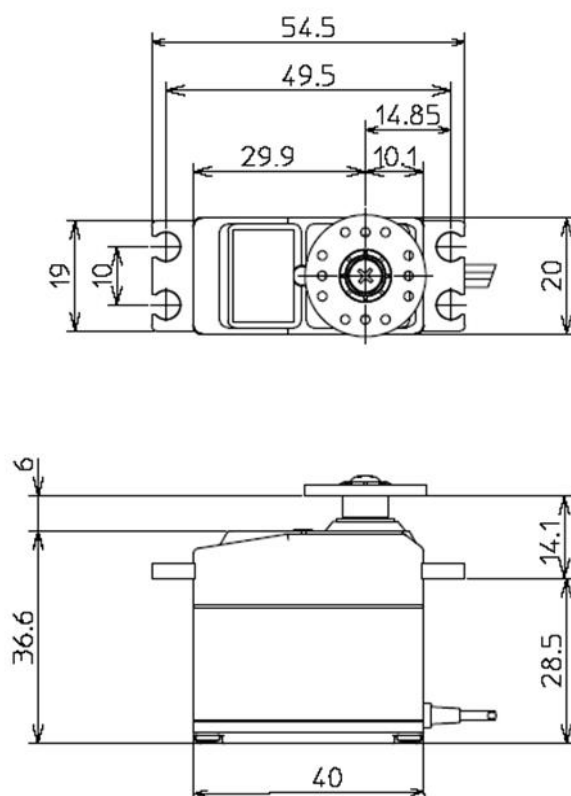
* Initial Performance Data at 23±5°C

All Specifications are subject to change without prior notice.

Caution

This product SHOULD NOT be used for the devices that is directly related to human life.

Outer Dimension



(Unit mm)