

AD1HA Technical Specification

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

171010-01

Item		Specification				Remark		
1	Communication Interface	PWM				Signal Voltage:V	Max : Vcc	
							Min : 3.0V	
						Frame Rate:T	14.25~20ms	
						Left/Center/Right:Td	970/1520/2070us	
						Resolution	≤ 1us	
2	Rated Voltage	4.8V DC				-		
3	Operating Voltage	4.0~6.0V DC				-		
4	Standby Current	≤ 30mA				-		
5	Consumption Current*	LL	Me	UL	unit	LL : Low Limit Me : Medium Value UL : Upper Limit		
		50	100	150	mA	at 4.8V , No-Load		
6	Max. Torque*	5.0	7.0	9.0	kgf-cm	at 4.8V		
		0.49	0.69	0.88	N-m			
		69.4	97.2	125.0	ozf-in			
7	No Load Speed*	0.50	0.57	0.64	sec/60°	at 4.8V		
		120.0	105.3	93.8	°/sec			
		20.0	17.5	15.6	rpm			
8	Default Travel Angle	CW 90° (970us) CCW 90° (2070us)				-		
9	BackLash*	≤ 0.5°				-		
10	Operating Temperature Range	0~+45°C (32~113°F)				-		
11	Storage Temperature Range	-10~+60°C (-14~140°F)				-		
12	Outer Dimension	1.36 x 0.63 x 1.02 inch (34.5 x 16.0 x 25.8mm)				-		
13	Weight	0.92oz (26g)				-		
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 : 7.09 inch (180mm)		
17	Connector	Manufacture	J.A.M Co., LTD.					
		Type	FC25-03HG					
		Mating	FC25-03M etc.					
		Pin Assignment	1	White	PWM			
			2	Red	Vcc			
		3	Black	GND				
18	Life	≥ 22,500 cycle				Test Condition • Test voltage : 6.0V • Load : No load • Operating Condition : 0.0625Hz sweep (±90°) • Input Pulse : PWM		
19	Vibration Resistance *	Operating time ≥ 100h (at 6.0V)				Test Condition Frequency range : 80 to 400Hz Acceleration : 30G (294m/s ²) Sweep rate : 1.2min Vibration axis : X , Y , Z		

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

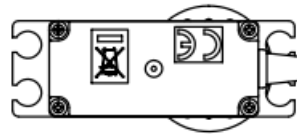
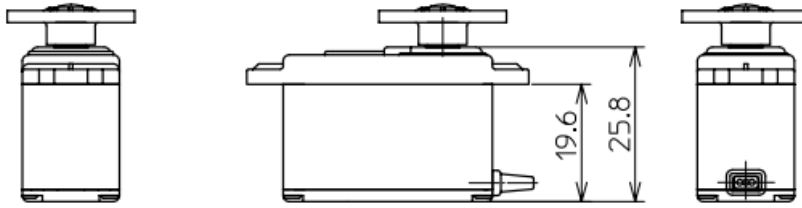
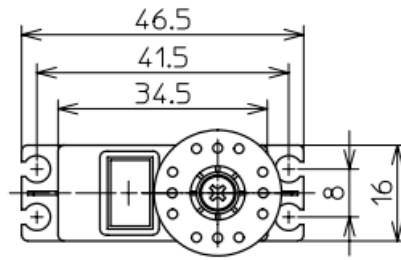
All Specifications are subject to change without prior notice.

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



(Unit mm)