

AD2HASV 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)
						Left/Center/Right:Td	2120/1520/920μs (Resolution recommends less than 1μs)
		S.BUS / S.BUS2				Futaba Serial Protocol (Please ask us for more information.)	
2	Rated Voltage	6.0~7.4V DC				-	
3	Operating Voltage	4.0~8.4V DC				-	
4	Standby Current	≤ 45mA				at 6.0~7.4V	
5	Consumption Current*	LL	Me	UL	unit	at 7.4V , No-Load	
		40	90	140	mA	LL : Low Limit Me : Medium Value UL : Upper Limit	
6	Max. Torque*	LL	Me	UL	unit	at 7.4V	
		1.5	3.0	4.5	kgf-cm		
		0.15	0.29	0.44	N-m		
7	Rated Torque*	LL	Me	UL	unit	at 7.4V	
		0.3	0.6	0.9	kgf-cm	20% of Max. Torque	
		0.03	0.06	0.09	N-m		
8	No Load Speed*	LL	Me	UL	unit	at 7.4V	
		0.08	0.11	0.14	sec/60°		
		428.6	545.5	750.0	°/sec		
		71.4	90.9	125.0	rpm		
9	Default Travel Angle	CW 60° (920us) CCW 60° (2120us)				-	
10	Max Travel Angle	CW 90° (920us) CCW 90° (2120us)				Programing tool (CIU-2,S-Link) required.	
11	BackLash*	≤ 0.5°				-	
12	Operating Temperature Range	-10~+45°C (14~113°F)				-	
13	Storage Temperature Range	-20~+60°C (-4~140°F)				-	
14	Outer Dimension	0.91 x 0.46 x 1.13 inch (23.0 x 11.8 x 28.8mm)				-	
15	Weight	0.57oz (16.2g)				-	
16	Case Material	Upper : Resin / Middle : AL / Bottom : Resin				-	
17	Gear Set Material	1st : Resin / 2nd,3rd,4th,5th(Final) : Metal				-	
18	Cable	Non-Shielded Cable				Cable Length : 5.90 inch (150mm)	
19	Connector	Manufacture	J.A.M Co., LTD.				
		Type	FC25-03HG				
		Mating	FC25-03M etc.				
		Pin Assignment	1	White	S.BUS / PWM		
		2	Red	Vcc			
		3	Black	GND			
20	MTT(B)F*	90h (Calculated by Weibull analysis)				Test Condition at 7.4V / Load : 20% of Max. Torque / 0.5Hz sweep (±60°)	
21	Vibration Resistance *	Operating time ≥ 20h (at 6.0V)				Test Condition	
						Frequency range	80 to 400Hz
						Acceleration	10G (98m/s ²)
						Sweep rate	1.2 min / single-sweep
				Vibration axis	X , Y , Z		

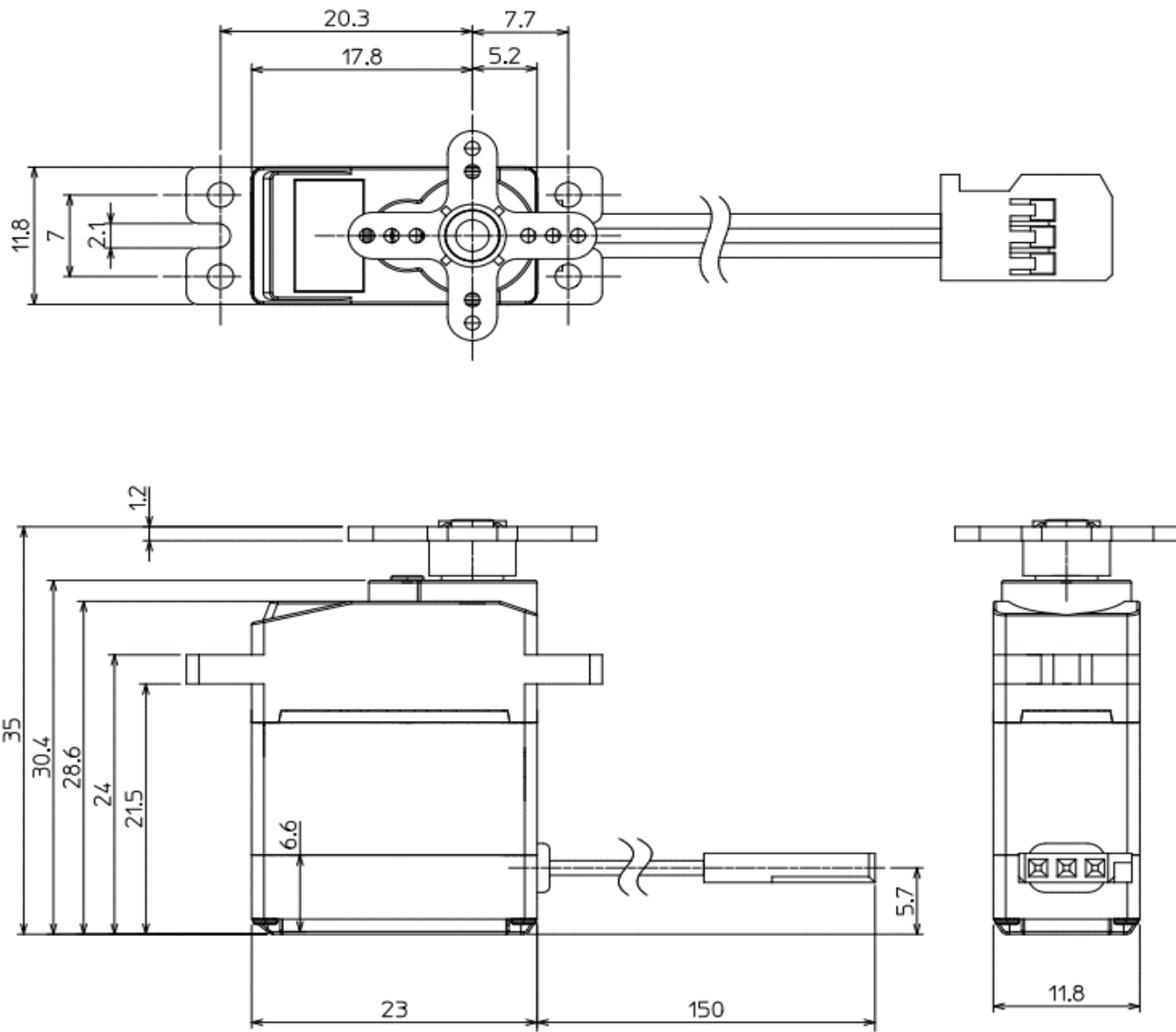
* Initial Performance Data at 23±5°C

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)