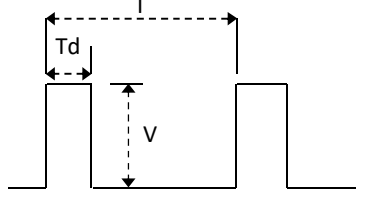
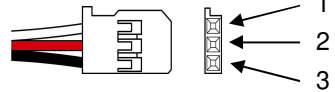
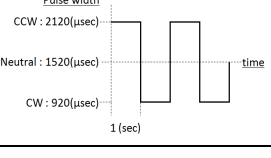


AD20-05H-A01 Technical Specification

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.)
2	Rated Voltage	DC 4.8~DC 6.0V	—
3	Operating Voltage	DC 4.0~DC 6.0V	—
4	Standby Current	≤ 20mA	at 4.8~6.0V
5	Starting Current*	0.8A	at 6.0V
6	Consumption Current*	LL Me UL unit 50 100 150 mA	at 6.0V , No-Load LL : Low Limit Me : Medium Value UL : Upper Limit
7	Max. Torque*	LL Me UL unit 3.1 4.1 5.1 kgf-cm 0.3 0.4 0.5 N-m 43.1 56.9 70.8 ozf-in	at 6.0V
8	Rated Torque*	1.2 kgf-cm 0.12 N-m 17.1 ozf-in	at 6.0V 30% of Max. Torque
9	No Load Speed*	LL Me UL unit 0.14 0.19 0.25 s/60° 240.0 315.8 428.6 °/s 40.0 52.6 71.4 rpm	at 6.0V
10	Default Travel Angle	LL Me UL unit 53 60 67 °	CW 60° (920us) / CCW 60° (2120us)
11	Max Travel Angle	LL Me UL unit 80 90 100 °	CW 90° (920us) / CCW 90° (2120us) Programing tool (CIU-2 or CIU-3,S-Link) required.
12	BackLash*	≤ 0.7°	—
13	Operating Temperature Range	-20~+60°C (-4~140°F)	—
14	Storage Temperature Range	-20~+60°C (-4~140°F)	—
15	Outer Dimension	40.5 x 20.0 x 36.1mm (1.59 x 0.78 x 1.42 in)	—
16	Weight	36g (1.27oz)	with Horn and set screw
17	Case Material	Upper,Middle,Bottom : Resin	—
18	Gear Set Material	1st,2nd,3rd,4th(Final) : Resin	—
19	Cable	Non-Shielded Cable	Cable Length : 11.81 inch (300mm)
20	Connector	Manufacture J.A.M. Co., Ltd. Type FC25-03HG** Mating FC25-03M** etc. Pin Assignment 1 White PWM/S.BUS 2 Red Vcc 3 Black GND	
21	Water Resistance	IP40 equivalent	—
22	MTTF	570h (at 6.0V)	Test Condition • Load : 30% of Max. Torque • Operating Condition : 0.5Hz sweep (±60°) • Input Pluse : PWM 
23	Vibration Resistance *	Operating time > 100h (at 4.8V)	Test Condition Frequency range 80 to 400Hz Sweep Rate 1.2 min / single-sweep Acceleration 30G (294m/s2) Vibration axis X , Y , Z

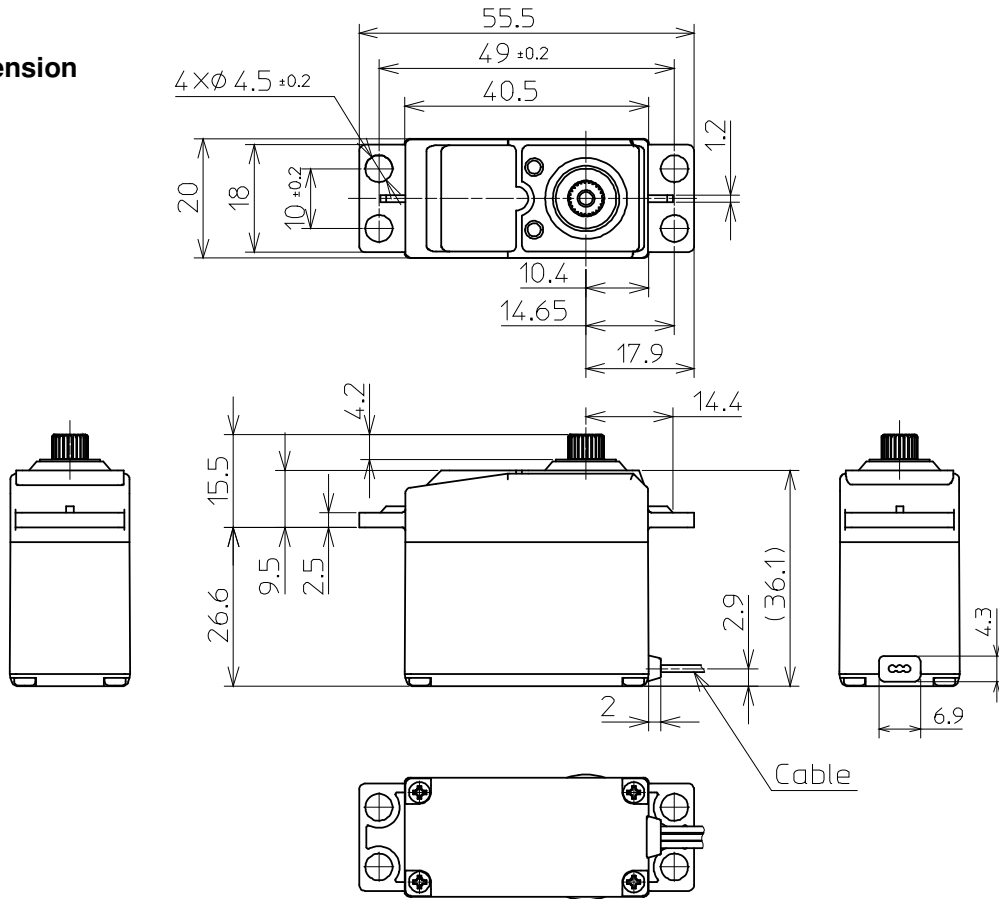
* At 23±5°C (Initial Performance Data)

** Custom connector. If necessary, Please use the extension cord sold from Futaba.

All Specifications are subject to change without prior notice.**Caution**

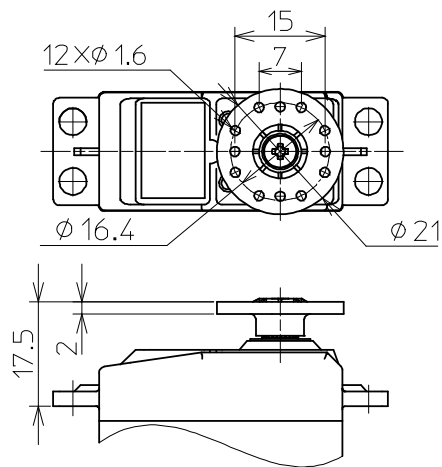
• This product SHOULD NOT been used for the devices that is directly related to human life.

Outer Dimension
Unit(mm)



SERVO HORN

Unit(mm)



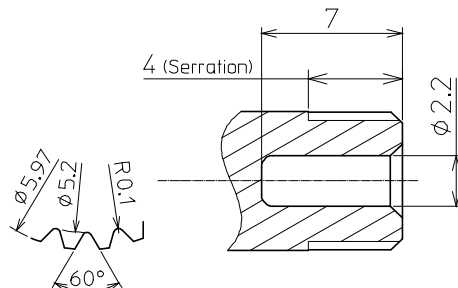
Sarretion Size

Standard Diameter : $\phi 6$

Angle : 60°

Tooth : 25

OUTPUT SHAFT Unit(mm)



SERVO HORN Unit(mm)

