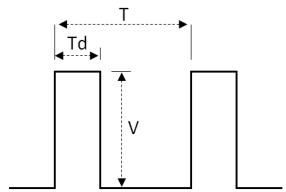
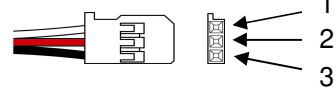
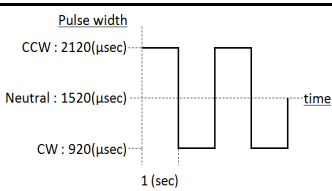


BLA6HB21 Technical Specification

	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 6.0~7.4V				—	
3	Operating Voltage	DC 4.0~8.4V				—	
4	Standby Current	≤ 45mA				at 6.0~7.4V	
5	Starting Current*	2.3A				at 7.4V	
6	Consumption Current*	LL	Me	UL	unit	at 7.4V , No-Load	
		180	270	360	mA	LL : Low Limit Me : Medium Value UL : Upper Limit	
7	Max. Torque*	LL	Me	UL	unit	at 7.4V	
		4.6	7.6	10.6	kgf·cm		
		0.45	0.75	1.04	N·m		
		63.9	105.5	147.2	ozf·in		
8	Rated Torque*	LL	Me	UL	unit	at 7.4V 10% of Max. Torque	
		0.460	0.8	1.06	kgf·cm		
		0.045	0.07	0.104	N·m		
		6.388	10.6	14.72	ozf·in		
9	No Load Speed*	LL	Me	UL	unit	at 7.4V	
		0.07	0.10	0.13	s/60°		
		461.5	600.0	857.1	°/s		
		76.9	100.0	142.9	rpm		
10	Default Travel Angle	CW 60° (920us) CCW 60° (2120us)				—	
11	Max Travel Angle	CW 90° (920us) CCW 90° (2120us)				Programing tool (CIU-2,S-Link) required.	
12	BackLash*	≤ 0.5°				—	
13	Operating Temperature Range	-10~+45°C (14~113°F)				—	
14	Storage Temperature Range	-20~+60°C (-4~140°F)				—	
15	Outer Dimension	33.0 x 15.0 x 27.1mm (1.30 x 0.59 x 1.07 inch)				—	
16	Weight	28g (0.99oz)				—	
17	Case Material	Upper : Resin / Middle : Resin / Bottom : Resin				—	
18	Gear Set Material	1st ,2nd,3rd,4th,5th(Final) : Metal				—	
19	Cable	Non-Shielded Cable				Cable Length : 150mm (5.9 inch)	
20	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			
21	MTTF	500h				<u>Test Condition</u> • Test voltage : 7.4V • Load : 10% of Max. Torque • Operating Condition : 0.5Hz sweep (±60°) • Input Pluse : PWM 	
22	Vibration Resistance *	Operating time ≥ 50h (at 7.4V)				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

** 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.

