

BLA2FB21/22 Technical Specification

Update Number

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

160419-05

Item		Specification				Remark		
1	Communication Interface	PWM				Signal Voltage:V	HIGH : min. 2.0V max. Vcc	
							LOW : min. 0.0V max. 0.45V	
		S.BUS				Frame Rate:T	2.0~30ms	
						Left/Center/Right:Td	1060/760/460μs (Resolution recommends less than 1μs.)	
						Futaba Serial Protocol (Please ask us for more information.)		
2	Rated Voltage	8.0V DC				-		
3	Operating Voltage	4.0~8.4V DC				-		
4	Standby Current	≤ 45mA				at 8.0V		
5	Consumption Current*	LL	Me	UL	unit	at 8.0V , No-Load		
		100	200	300	mA	LL : Low Limit Me : Medium Value UL : Upper Limit		
6	Max. Torque*	LL	Me	UL	unit	at 8.0V		
		5.8	8.4	10.8	kgf-cm			
		0.57	0.82	1.06	N-m			
7	Rated Torque*	LL	Me	UL	unit	at 8.0V		
		1.2	1.7	2.2	kgf-cm	20% of Max. Torque		
		0.11	0.16	0.21	N-m			
8	No Load Speed*	LL	Me	UL	unit	at 8.0V		
		0.02	0.04	0.06	sec/60°			
		1000.0	1500.0	3000.0	°/sec			
9	Default Travel Angle	CW 50° (460μs)				-		
		CCW 50° (1060μs)						
10	Max Travel Angle	CW 75° (460μs)				Programing tool (CIU-2,S-Link) required.		
		CCW 75° (1060μs)						
11	BackLash*	≤ 0.5°				-		
12	Operating Temperature Range	-40~+60°C (-40~140°F)				-		
13	Operating Humidity Range	≤ 90%RH				-		
14	Storage Temperature Range	-54~+71°C (-65.2~159.8°F)				-		
15	Storage Humidity Range	≤ 90%RH				-		
16	Outer Dimension	1.58 x 0.79 x 1.44 inch (40.0 x 20.0 x 36.8mm)				-		
17	Weight	BLA2FB21 : 3.17oz (90g) BLA2FB22 : 2.79oz (79g)				-		
18	Case Material	Upper : AL / Middle : AL / Bottom : AL				-		
19	Gear Set Material	1st : Resin / 2nd,3rd,4th(Final) : Metal				-		
20	Cable	Shielded Cable				Cable Length : BLA2FB21 15.75 inch (400mm) BLA2FB22 5.91 inch (150mm)		
21	Connector	Manufacture	Tyco Electronics					
		Type	TE794617-6					
		Mating	TE794616-6 etc.					
		Pin Assignment	1	White	S.BUS / PWM			
			2	Red	Vcc			
			3	Black	GND			
4	Yellow		Position Feedback+					
5	Green	Position Feedback-						
6	Shield	Case Shield Line						
22	MTT(B)F*	1000h (Calculated by Weibull analysis.)				Test Condition at 8.0V / Load : 20% of Max. Torque / 0.5Hz sweep (±50°)		
23	Vibration Resistance *	Operating time ≥ 50h (at 8.0V)				Test Condition		
						Frequency range		
						80 to 400Hz		
						Acceleration		
				30G (294m/s ²)				
				Sweep rate				
				1.2min				
				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 and/or harmful devices for human body such as below applications.

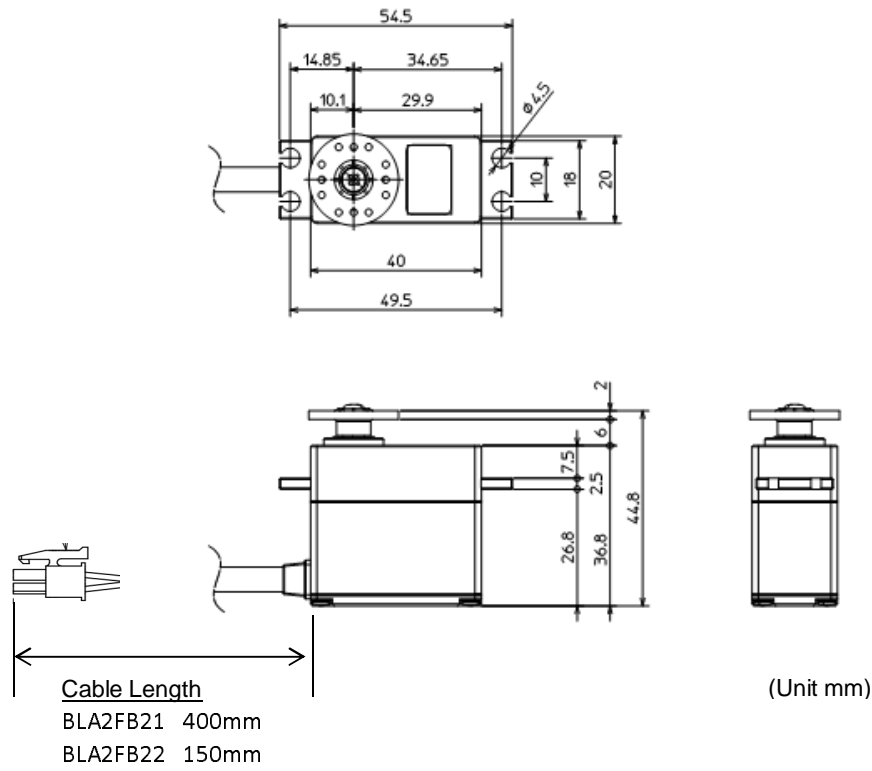
(1)Medical Devices

(2)Aerospace/Aviation Related Devices

(3)Nuclear Related Devices

e.t.c.

Outer Dimension



Position Feedback

