



PRODUCT SPECIFICATION

RSB31V84

Control System	Pulse width modulation control		
Refresh Rate	333Hz		
Neutral Position	1520uS		
Signal Mode	Digital		
Dead band	2 uSec		
Operating Voltage	4.8V ~ 8.4V		
Operating Temperature	-15C° ~ +70C°		
Bearing	Double Bearings		
Mechanical Angle	220°		
Size	40*20*37.8mm		
Net Weight	69.5g		
Wire	JR 300mm / 22AWG		
Operating Travel	180° ± 10°		
Signal Range	500 to 2500 uSec		
Stall Torque	21 kg-cm (292 oz-in) @ 4.8V 23 kg-cm (320 oz-in) @ 6.0V 28 kg-cm (389 oz-in) @ 7.4V 31 kg-cm (430 oz-in) @ 8.4V	Unload Current	360mA @ 4.8V 400mA @ 6.0V 450mA @ 7.4V 500mA @ 8.4V
Operating Speed	0.150sec/ 60° @ 4.8V 0.125sec/60° @ 6.0V 0.105sec/60° @ 7.4V 0.090sec/60° @ 8.4V	Loading Current	3800mA @ 4.8V 4300mA @ 6.0V 4800mA @ 7.4V 5000mA @ 8.4V
Direction	☒ CCW ☐ CW		
Waterproof Level	☐ IP65 ☐ IP67		
Angle Sensor	☒ Potentiometer ☐ Magnet Angle Sensor		
Motor Type	☒ Brushless ☐ Coreless ☐ DC		
Motor Drive	☒ FET Drive ☐ IC Drive ☐ Transistor Drive		
Programmable	☒ Yes ☐ No		
Gear Material	☒ Strength Steel ☐ Titanium ☐ Copper ☐ Plastic		
Horn Gear Spline	☒ 25T-φ5.92mm ☐ 25T-φ4.94mm ☐ Other _____		
Case Material	☐ AL6061T6 ☒ AL+Plastic ☐ Plastic		
Bearing Material	☒ Metal ☐ Plastic		
Horn Accessories	☐ AL6061T6 ☒ Plastic		
Wire Color	Negative: ☒ Black ☐ Brown Positive: ☐ Black ☒ Red Signal: ☐ Grey ☒ White ☐ Orange		

