



PRODUCT SPECIFICATION

RS13

Control System	Pulse width modulation control		
Refresh Rate	333Hz		
Neutral Position	1520uS		
Signal Mode	Digital		
Dead band	3 uSec		
Operating Voltage	4.8V ~ 8.4V		
Operating Temperature	-15C°~ +70C°		
Bearing	Double Ball Bearings		
Mechanical Angle	No Limit		
Size	22.8*12*29.4mm		
Net Weight	17g		
Wire	JR 180mm / 26AWG		
Operating Travel	180°±10°		
Signal Range	500 to 2500 uSec		
Stall Torque	3.0 kg-cm (42 oz-in) @ 4.8V 3.8 kg-cm (53 oz-in) @ 6.0V 4.2 kg-cm (58 oz-in) @ 7.4V 4.5 kg-cm (63 oz-in) @ 8.4V		Unload Current 200mA @ 4.8V 240mA @ 6.0V 270mA @ 7.4V 300mA @ 8.4V
Operating Speed	0.15sec/ 60° @ 4.8V 0.13sec/60° @ 6.0V 0.11sec/ 60° @ 7.4V 0.10sec/60° @ 8.4V		Loading Current 1200mA @ 4.8V 1400mA @ 6.0V 1500mA @ 7.4V 1600mA @ 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		

