



PRODUCT SPECIFICATION

RS500BSMW

Control System	Pulse width modulation control		
Refresh Rate	333Hz		
Neutral Position	1520µS		
Signal Mode	Digital		
Dead band	2 µSec		
Operating Voltage	4.8V ~ 8.4V		
Operating Temperature	-15C° ~ +70C°		
Bearing	Dual Ball Bearings		
Mechanical Angle	No Limit		
Size	40*20*37.8mm		
Net Weight	73.5g		
Wire	TYU 300mm / 22AWG		
Operating Travel	180°±10°		
Signal Range	500 to 2500 uSec		
Stall Torque	30 kg-cm (417 oz-in) @ 4.8V 36 kg-cm (500 oz-in) @ 6.0V 44 kg-cm (611 oz-in) @ 7.4V 50 kg-cm (695 oz-in) @ 8.4V	Unload Current	300mA @ 4.8V 350mA @ 6.0V 400mA @ 7.4V 450mA @ 8.4V
Operating Speed	0.145 sec/60° @ 4.8V 0.125 sec/60° @ 6.0V 0.105 sec/60° @ 7.4V 0.090 sec/60° @ 8.4V	Loading Current	4600mA @ 4.8V 5400mA @ 6.0V 6200mA @ 7.4V 7000mA @ 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-Ø5.92mm ☐ 25T-Ø4.94mm ☐ 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		