



PRODUCT SPECIFICATION

RS8V84SMC

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 Ball Bearing		
Mechanical Angle	No Limit		
Size	30*10*30.5mm		
Net Weight	24.3g		
Wire	TYU 180mm / 26AWG		
Operating Travel	180° ± 10°		
Signal Range	500 to 2500 uSec		
Stall Torque	5.0 kg-cm (69 oz-in) @ 4.8V 6.2 kg-cm (86 oz-in) @ 6.0V 7.0 kg-cm (97 oz-in) @ 7.4V 8.0 kg-cm (111 oz-in) @ 8.4V	Unload Current	200mA @ 4.8V 220mA @ 6.0V 250mA @ 7.4V 300mA @ 8.4V
Operating Speed	0.120sec/ 60° @ 4.8V 0.105sec/60° @ 6.0V 0.090sec/60° @ 7.4V 0.080sec/60° @ 8.4V	Loading Current	1500mA @ 4.8V 1600mA @ 6.0V 1800mA @ 7.4V 2000mA @ 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		