PRODUCT SPECIFICATION

A81BHPW

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	Three Bearings
Limit Angle	No Limit
Size	40*20*37.5mm
Net Weight	81g
Wire	TYU 300mm / 22AWG
Operating Travel	180°±10°
Pulse width	500 to 2500 uSec

Stall Torque	12 kg-cm (167 oz-in) @ 4.8V 16 kg-cm (222 oz-in) @ 6.0V 19 kg-cm (264 oz-in) @ 7.4V 23 kg-cm (320 oz-in) @ 8.4V	**Unload Current**	280mA @ 4.8V 320mA @ 6.0V 360mA @ 7.4V 400mA @ 8.4V
Operating Speed	0.080sec/ 60° @ 4.8V 0.070sec/60° @ 6.0V 0.060sec/60° @ 7.4V 0.052sec/60° @ 8.4V	**Loading Current**	3600mA @ 4.8V 4000mA @ 6.0V 4300mA @ 7.4V 4600mA @ 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