



PRODUCT SPECIFICATION

IA81BHLW

Control System	Pulse Width Modulation		
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 Ball Bearings		
Limit Angle	No Limit		
Size	40*20*37.5mm		
Net Weight	81g		
Connector Wire	JR 2.54*4PIN 300mm / 22AWG		
Operating Travel	180°±10°		
Control Signal	500 to 2500 uSec		
Position Signal Voltage	800 to 2500 mV @180°		
Stall Torque	30 kg-cm (417 oz-in) @ 4.8V 37 kg-cm (514 oz-in) @ 6.0V 44 kg-cm (612 oz-in) @ 7.4V 50 kg-cm (695 oz-in) @ 8.4V	Unload Current	280mA @ 4.8V 320mA @ 6.0V 360mA @ 7.4V 400mA @ 8.4V
Operating Speed	0.180sec/ 60° @ 4.8V 0.150sec/60° @ 6.0V 0.135sec/60° @ 7.4V 0.120sec/60° @ 8.4V	Loading Current	3600mA @ 4.8V 4000mA @ 6.0V 4300mA @ 7.4V 4600mA @ 8.4V
Direction	<input checked="" type="checkbox"/> CCW <input type="checkbox"/> CW		
Waterproof Level	<input type="checkbox"/> IP65 <input checked="" type="checkbox"/> IP67		
Angle Sensor	<input type="checkbox"/> Potentiometer <input checked="" type="checkbox"/> Magnet Angle Sensor		
Motor Type	<input checked="" type="checkbox"/> Brushless <input type="checkbox"/> Coreless <input type="checkbox"/> DC		
Motor Drive	<input checked="" type="checkbox"/> FET Drive <input type="checkbox"/> IC Drive <input type="checkbox"/> Transistor Drive		
Programmable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Gear Material	<input checked="" type="checkbox"/> Strength Steel <input type="checkbox"/> Titanium <input type="checkbox"/> Copper <input type="checkbox"/> Plastic		
Horn Gear Spline	<input checked="" type="checkbox"/> 25T-φ5.92mm <input type="checkbox"/> 25T-φ4.94mm <input type="checkbox"/> Other_____		
Case Material	<input checked="" type="checkbox"/> AL6061T6 <input type="checkbox"/> AL+Plastic <input type="checkbox"/> Plastic		
Bearing Material	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic		
Horn Accessories	<input checked="" type="checkbox"/> AL6061T6 <input type="checkbox"/> Plastic		
Wire Color	Negative: <input checked="" type="checkbox"/> Black <input type="checkbox"/> Brown Positive: <input type="checkbox"/> Black <input checked="" type="checkbox"/> Red Control Signal: <input type="checkbox"/> Grey <input checked="" type="checkbox"/> White <input type="checkbox"/> Orange Position Signal: <input type="checkbox"/> Black <input type="checkbox"/> White <input checked="" type="checkbox"/> Orange		

