



PRODUCT SPECIFICATION

SA18 (2S)

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	Double Ball Bearings		
Mechanical Angle	No Limit		
Size	40.8*20.2*26.5mm		
Net Weight	55g		
Wire	TYU 180mm / 22AWG		
Operating Travel	180°±10°		
Signal Range	500 to 2500 μSec		
Stall Torque	11 kg-cm (153 oz-in) @ 5.0V 13 kg-cm (181 oz-in) @ 6.0V 16 kg-cm (222 oz-in) @ 7.4V 18 kg-cm (250 oz-in) @ 8.4V	Unload Current 300mA @ 4.8V 350mA @ 6.0V 390mA @ 7.4V 430mA @ 8.4V	
Operating Speed	0.14sec/60° @ 5.0V 0.13sec/60° @ 6.0V 0.12sec/60° @ 7.4V 0.11sec/60° @ 8.4V	Loading Current 2200mA @ 4.8V 2600mA @ 6.0V 3000mA @ 7.4V 3400mA @ 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 type="checkbox"/> Brushless <input checked="" 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 type="checkbox"/> AL6061T6 <input checked="" type="checkbox"/> Aluminum + Plastic <input type="checkbox"/> Plastic		
Bearing Material	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic		
Horn Accessories	<input type="checkbox"/> AL6061T6 <input checked="" type="checkbox"/> Plastic		
Wire Color	Negative: <input checked="" type="checkbox"/> Black <input type="checkbox"/> Brown Positive: <input checked="" type="checkbox"/> Black <input type="checkbox"/> Red Signal: <input checked="" type="checkbox"/> Grey <input type="checkbox"/> White <input type="checkbox"/> Orange		

UNIT:MM