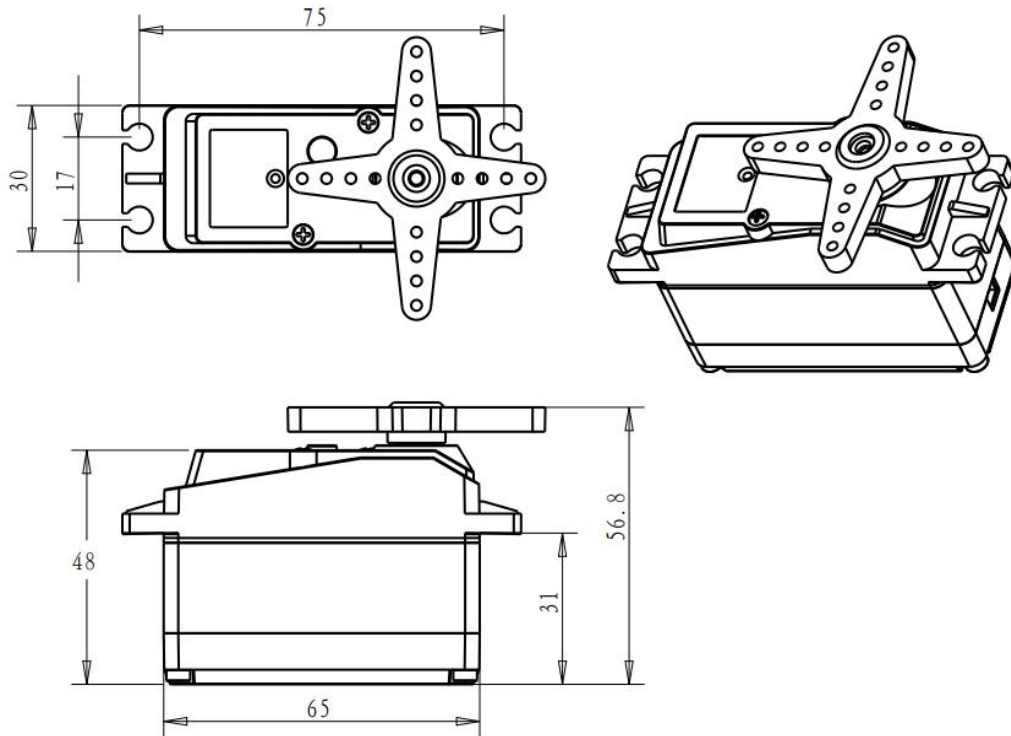




1. Product Name: DS5180 (RED)
2. Product Description: 7.4V 80kg RC Digital Servo
3. Drawing



4. Apply Environmental Condition

No.	Item	Specification
4-1	Storage Temperature Range	-30℃ ~ 80℃
4-2	Operating Temperature Range	-15℃ ~ 70℃
4-3	Operating Voltage Range	6-8.4V

5. Mechanical Specification

No.	Item	Specification
5-1	Size	65*30*48mm
5-2	Weight	158g
5-3	Gear ratio	357
5-4	Bearing	Double bearing
5-5	Connector wire	300 ± 5mm
5-6	Motor	3-pole(s)
5-7	Waterproof performance	IP67



6. Electrical Specification

No.	Operating Voltage	6V	7.4V	8.4V
6-1	Idle current(at stopped)	4mA	5mA	6mA
6-2	Operating speed (at no load)	0.24 sec/60°	0.21 sec/60°	0.19sec/60°
6-3	Stall torque (at locked)	85 kg-cm	98 kg-cm	105 kg-cm
6-4	Stall current (at locked)	4.1A	5.4A	6.5A

7. Control Specification

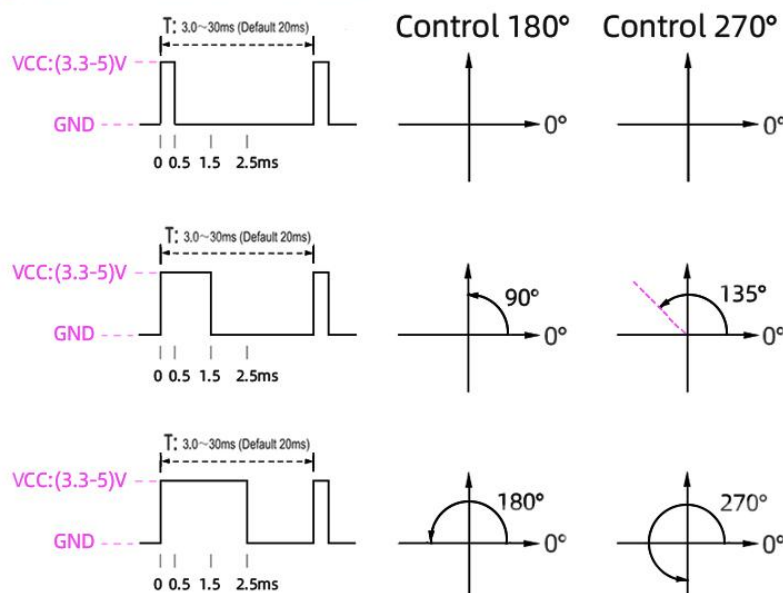
No.	Item	Specification
7-1	Control System	PWM(Pulse width modification)
7-2	Pulse width range	500~2500μsec
7-3	Neutral position	1500μsec
7-4	Running degree	180° or 270° (when 500~2500 μ sec)
7-5	Dead band width	3 μsec
7-6	Operating frequency	50-330Hz
7-7	Rotating direction	Counterclockwise (when 500~2500 μsec)

8. About PWM Control

► Connector: JR-3pin-2.54mm



► Communication Interface: PWM



For more servo datasheet and 3D files, please go to the website to download (www.dsservo.com)