6Kg 300° Clutch Servo

$9.00

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Details

Introduction

When a servo is operated under complex circumstances such as robot and model, it may get stuck, be burned, or damaged due to external forces, which could bother you a lot...

Now DFRobot is launching a series of servos with clutch function and electronic protection that can solve your problems perfectly.

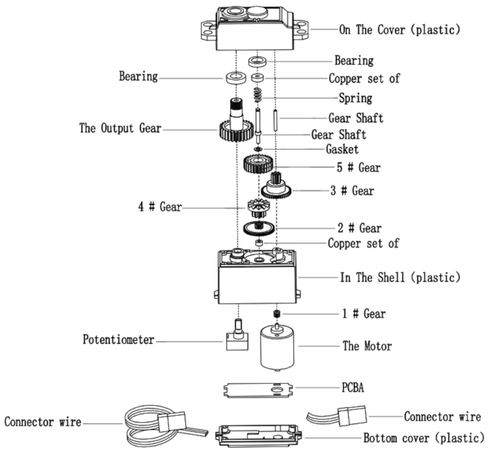
Clutch function

When the angle of a servo is changed by external forces during normal operation, the servo can automatically reset and continue working through clutch function, which prevents it from being damaged.

Electronic protection

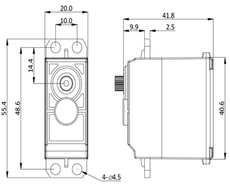
After being blocked for 5 seconds, the servo will automatically turn off its power to avoid getting burned.

Servo Internal structure



This servo features large torque, stable performance, accurate running angle and easy to install. The operating voltage is 4.8-6V. When the servo is powered at 6V, its stall torque will exceed 6kg.cm. Since there is no limit switch inside the servo, users can make the servo rotate smoothly in 360 degrees (manually only). Besides, the servo could operate fluently with minimal power, and you can just supply power to it by normal battery or USB. In addition, users can directly control the servo using servo libraries in Arduino IDE and let it reach a maximum 300 degrees rotation angle within the pulse range of 500-2500μsec.

Mechanical Dimensions



Specification

- Operating Voltage: 4.8-6V DC
- Static Current: ≤10mA @ 6.0V
- Current(at no load): ≤60mA @6.0V
- Current(at stopped): ≤1.65A @6.0V
- Rated Torque: ≥4.4kg·cm @6.0V
- Stall Torque: 6kg.cm @6.0V
- Operatable Travel: 300°±10°
- Pulse Width Range: 500-2500μs
- Communication Mode: PWM

Shipping List

- 6Kg 300° Clutch Servo x1
- Servo Plate & Accessories x1 set

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