



DF Metal Geared 15Kg Standard Servo 270° (DSS-M15S)

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INTRODUCTION

DSS-M15S is a heavy-duty metal gear standard servo with 270° wide angle, high torque power, improved stability and durability.

Able to take in 6V and deliver a strong torque power of over 15Kg, this tough 270° servo will never let you down when you need it. Tested with high load capacity for 12 hours long, this DSS-M15S servo demonstrates a maximum torque of 18Kg without much vibration or heat.

In addition, we enclose carefully selected steering parts, including an aluminum alloy wheel and a long bracket, to enhance servo performance.

SPECIFICATION

- Voltage: 4.8-7.2 Volts
- Torque: 13.5Kg*cm/15Kg*cm (6.0V/7.0V)
- Speed: 0.18 sec/60°/0.16 sec/60° (6.0V/7.0V)
- Free Run Current: 80mA/100mA (6.0V/7.0V)
- Stall Current: 1.8A/2A (6.0V/7.0V)
- Standby Current: 4mA/5mA (6.0V/7.0V)
- Rotation: 270°
- Wheel Gear: Metal
- Gear Ratio: 310:1
- Dimension: 54.5*20*47.5mm(2.15*0.79*1.87")
- Signal: RC PWM
- Pulse Range: 500-2500 us
- Frequency: 50-330Hz(Arduino-compatible)

DOCUMENTS

- [Electrical Specification](#)
 - [Mechanical Specification](#)
 - [Control Specification](#)
- Downloaded from [Arrow.com](#)

SHIPPING LIST

- DSS-M15S Servo x1
- Metal round servo horn x1
- X servo horn x1
- long straight servo horn x1
- Straight servo horn x1
- M2*8 self tapping screw x5
- M2 screw washer x5
- M3*6 screw x1

REVIEW

18 Comments DFRobot

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leonix · 3 months ago

How can I reduce the max torque? (Dont want to change the servo because of dimensions). Currently it so strong, it is breaking my handles sometimes.

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DFRobot Support  leonix · 3 months ago

No, the torque can not be changed, but if the voltage is lower, the torque may be lower a little.

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Robin R Spondon · 4 months ago


can i make serious robot with m15s.. what about its Accuracy..

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Robin R Spondon · 4 months ago

Dss M15S.. what type of servo..?is it Digital or Analog..

  · Reply · Share



DFRobot Support  Robin R Spondon · 4 months ago

The servo is controlled by PWM signal, but it is unlike servo motors, it can't be so accurate for precious control.

  · Reply · Share



Robin R Spondon → DFRobot Support · 4 months ago

Thanks

  · Reply · Share



Jeffrey Sweet · 9 months ago

Hi, will this servo rotate 270 degrees if the transmitter stick is moved 90 degrees?

  · Reply · Share



DFRobot Support  Jeffrey Sweet · 9 months ago

There is a potentiometer feedback the position of the stick to decide the rotation angle.

  · Reply · Share



Jeffrey Sweet → DFRobot Support · 9 months ago

Does the servo move 3 degrees for every degree the stick on the transmitter is moved?

  · Reply · Share



DFRobot Support  Jeffrey Sweet · 9 months ago

Why do you want to know this specification? as I know, the angle rotated is related to the potentiometer not the ratio between the servo and the transmitter.

  · Reply · Share



Jeffrey Sweet → DFRobot Support · 9 months ago

Ok thanks, I thought maybe this servo may be able to rotate a potentiometer 270 degrees when connected to a transmitter stick with a throw of 90 degrees. The pot is for an old speed control.

Thanks again.

  · Reply · Share



Randall Scharpf · 9 months ago

How heavy is this servo?

  · Reply · Share



DFRobot Support  Randall Scharpf · 9 months ago

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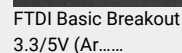
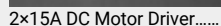
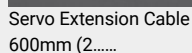
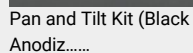
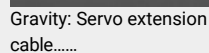
DFRobot Support — I think we can send to Russia by DHL.

DFRobot Support — <https://github.com/espressi...> Here is the example code for WiFiMulti, please take a look.

DFRobot Support — There might be several weeks before it be in stock again, if you need RPLIDAR urgently, you can choose RPLIDAR A2.

Naohiro Iida — Hi, I am Naohiro IIDA. Please check this code. <https://github.com/NaohiroIida>...

1/2 < >



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