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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(Arduion-compatible)

DOCUMENTS

- [Electrical Specification](#)
- [Mechanical Specification](#)
- [Control Specification](#)

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

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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..

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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.

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Robin R Spondon → **DFRobot Support** · 4 months ago

Thanks

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Jeffrey Sweet · 9 months ago

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

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DFRobot Support  → **Jeffrey Sweet** · 9 months ago

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

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Jeffrey Sweet → **DFRobot Support** · 9 months ago

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

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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

72g



james

10 months ago

hello,

will this servo run using the 5V supply from the arduino uno board? or will it need an external supply?

^

↓

Reply

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DFRobot Support

Mod

→

james

10 months ago

Hi

5V supply from UNO is enough, but if you plan to use more servos, you need an external supply

^

↓

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3D Printwiz

2 years ago

Hi, I just bought one a 270 degree servo from a local dealer. My servo rotates 90 degree clockwise correctly, but counterclockwise it does not go -90 degree but approximately 80 to 85 degrees. I use microseconds in my arduino code with a PWM setting of 500 to 2500 ms. Is my pwm setting wrong?

^

↓

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DFRobot Support

Mod

→

3D Printwiz

2 years ago

Hi how about try to use 450 ~ 2550 ms like:

myServe.write(450);

myServe.write(2550);

We have tested this servo and it can commonly reach about 250 degree

^

↓

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Matt Lev

2 years ago

Hello. Could you provide a mechanical drawing of the metal round horn that is included with this servo? I need the full dimensions (diameter and thickness for the horn and type of screw threads) to determine if it is suitable for my application. It is the same as this item: <https://www.dfrobot.com/ind...> Thanks

^

↓

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13 comments · 2 months ago

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

IRCameraMidi

4 comments · 2 months ago

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


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