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**DF Metal Geared 15Kg
Standard Servo 180° (DSS-
M15)**

SKU:SER0019 Brand:DFRobot
Reward Points:14

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| servo | 15kg | DSS-M15 | metal | geared |
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| SER0019 | 180° | Gravity | Servo / Motor |
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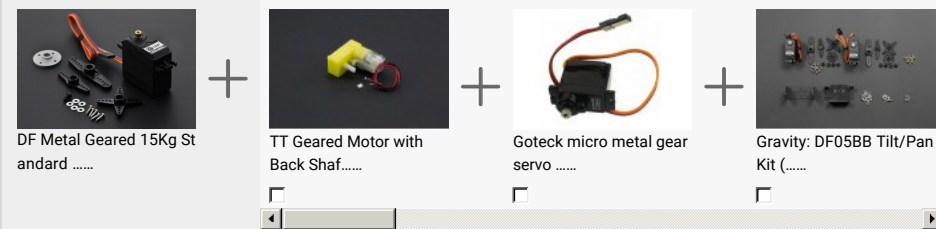
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INTRODUCTION

DSS-M15 is a heavy-duty metal gear standard servo with 180° 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 180° servo will never let you down when you need it. Tested with high load capacity for 12 hours long, this DSS-M15 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

| No | Items | Electrical Specification | |
|----|-----------------------------------|--------------------------|--------------|
| 1 | Operating voltage range | 4.8 - 57.2 volts | |
| No | Testing Environment | 6 volts | 7.2 volts |
| 2 | Operating speed (without payload) | 0.18 sec/60° | 0.16 sec/60° |
| 3 | Quiescent current | 80 mA | 100 mA |
| 4 | Stall Torque | 13.5 kg*cm | 15 kg*cm |
| 5 | Stall Current | 1.8 A | 2 A |
| 6 | Standby mode current | 4 mA | 5 mA |

| No | Items | Mechanical Specification |
|----|----------------------|--------------------------|
| 1 | Materials of gear | Metal Gear |
| 2 | Limited angle | About 180° |
| 3 | Connector wire gauge | 28 PVC |
| 4 | Wire length | About 320 mm |
| 5 | Horn gear spline | 25T / ϕ 5.80 |
| 6 | Geared ratio | 310:1 |
| 7 | Dimension | 54.5 x 20 x 47.5 mm |

| No | Items | Control Specification |
|----|-------------------------|---------------------------------|
| 1 | Control signal | RC PWM |
| 2 | Pulse width range | 500 - 2500 us |
| 3 | Neutral position signal | 1500 us |
| 4 | Clockwise rotation | <1500 us |
| 5 | Operating frequency | 50 - 330Hz (Arduino compatible) |

SHIPPING LIST

- DSS-M15 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

20 Comments
DFRobot

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- HH

3 months ago

What is this servo's accuracy?

Reply

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- DFRobot Support

Mod





































HH

3 months ago

This servo is not very accurate, it would be like several degree less than 180° if given full PWM.

Reply

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| | | | |
|---|--|---|---|
|  | HH → DFRobot Support • months ago So, what is the minimum value of the angle which I can control? | — |  |
| | ^ v • Reply • Share › | | |
|  | DFRobot Support Mod → HH • 3 months ago PWM value 0-255 corresponding to 0-180°. | — |  |
| | ^ v • Reply • Share › | | |
|  | Luc • 2 years ago Just recieved my servo motor. Cannot found a wiring scheme. Could you tell me which color is the the gnd, VIN and Signal? | — |  |
| | ^ v • Reply • Share › | | |
|  | DFRobot Support Mod → Luc • 2 years ago Hi, sorry for the late reply, and welcome to the new store, Signal: Orange; VCC: Red; Brown: GND | — |  |
| | ^ v • Reply • Share › | | |
|  | Terry Miff • 2 years ago What is the rotational speed of this servo please? | — |  |
| | ^ v • Reply • Share › | | |
|  | DFRobot Support Mod → Terry Miff • 2 years ago Hi, it is 0.18 sec/60 degree under 6 volt, please the parameter | — |  |
| | ^ v • Reply • Share › | | |
|  | William Capaldo • 3 years ago Do you know the date they'll be in stock again? i really need this servo for an exam | — |  |
| | ^ v • Reply • Share › | | |
|  | DFRobot Support Mod → William Capaldo • 3 years ago Hi, sorry we currently are not sure. Maybe after 2-3 weeks. | — |  |
| | ^ v • Reply • Share › | | |
|  | Vincent • 3 years ago Do you know the limite weight fot this device ? | — |  |
| | ^ v • Reply • Share › | | |
|  | DFRobot Support Mod → Vincent • 3 years ago Hi, the limited weight depends on your structure, servo torque is 15kg.cm | — |  |
| | ^ v • Reply • Share › | | |
|  | Vincent → DFRobot Support • 3 years ago So, i can put an parable of 5kg on this ? | — |  |
| | ^ v • Reply • Share › | | |
|  | DFRobot Support Mod → Vincent • 3 years ago Yeah, but it only can hold it at <3cm, 5kg*3cm | — |  |
| | ^ v • Reply • Share › | | |
|  | Vincent → DFRobot Support • 3 years ago Ok thanks | — |  |
| | ^ v • Reply • Share › | | |
|  | Vincent → Vincent • 3 years ago and you know what motoreducteur I can use for a solar tracker 2 axis with a parable of 5 kg ? | — |  |
| | ^ v • Reply • Share › | | |
|  | DFRobot Support Mod → Vincent • 3 years ago Hi, what is about this one? http://www.dfrobot.com/inde... | — |  |
| | ^ v • Reply • Share › | | |
|  | Vincent → DFRobot Support • 3 years ago it only needs to turn that 180 ° | — |  |
| | ^ v • Reply • Share › | | |
|  | Vincent → Vincent • 3 years ago infact I try to make a solar tracker with a parable 2 axes controlled by a motoreductor but I do'nt know how to do it | — |  |
| | ^ v • Reply • Share › | | |
|  | Vincent → Vincent • 3 years ago http://cncmarco.perso.sfr.fr/ i want something like this can you help me ? | — |  |
| | ^ v • Reply • Share › | | |

Adam Azhar — Its August... When can we expect our Alpha?
Indiegogo backers here... How soon can we order the LCD

40A Bidirectional Brushed ESC (Electronic Speed Controller) without Break (XT60 Connector) - DFRobot

7 comments · 2 months ago

DFRobot Support — No, the maximum voltage is 24V, you can't use battery higher than 24V.

Raspberry Pi Compatible) - DFRobot




1 comment · 4 months ago

Donny — Hello, bought several sensors from you and i am trying to get the ADS1115 work together with my pi and your SEN0175 UV Sensor.I2C Bus is up, output of the ...

Single Sided ProtoBoard (18x30cm)

2 comments · 2 months ago

DFRobot Support — Hi, all the pads are totally isolated.

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