Micro Metal Geared motor w/Encoder - 6V 75RPM 210:1

SKU:FIT0485

INTRODUCTION

A new micro metal gear motor with a difference! This motor comes with a built-in encoder which measures the motor's speed in real time. The average output number of pulses can reach up to 7*2*210 pulses per revolution. The motor has a long (0.354"/9.0 mm) D profile metal output shaft that is compatible with the 42x19mm and 32x7mm dimensions of the Pololu wheel. The brass faceplate has two mounting holes threaded for M1.6 screws (1.6mm diameter, 0.35mm thread pitch), or you can use the mounting bracket or extended mounting bracket which are specifically designed to securely mount the gear motor while enclosing the exposed gears. We recommend the extended mounting bracket for wheels with recessed hubs, such as the 42×19mm wheel.
The hall sensor of new version has 7 pole pairs, so the encoder resolution will be increased by 7-fold.
Compatible with 2WD miniQ Robot Chassis.

SPECIFICATION

- Rated Voltage: 6.0 V
- Motor Speed: 15000 RPM
- Gear Reduction Ratio: 210:1
- Reducer Length: 9.0 mm
- No-Load Speed: 75 rpm@6v
- No-Load Current: 60 mA
- Rated Torque: 1.4 kg.cm
- Rated Speed: 42 rpm@6V
- Current Rating: 170 mA
- Instant Torque: <2.8 kg.cm
- Hall Feedback Resolution: 2940
- Weight: 18g

DOCUMENTS

- Motor Interface https://github.com/Arduinolibrary/DFRobot_Micro_Metal_Gearmotor_with_Encoder/raw/master/Interface.png
- Motor Dimension https://github.com/Arduinolibrary/DFRobot_Micro_Metal_Gearmotor_with_Encoder/raw/master/Dimension.jpg

SHIPPING LIST

- Micro Metal Gearmotor 210:1 w/Encoder x1
- 6-pin connection cable x1
- 2-pin 1.5 mm JST connector x1
- 4-pin 1.5 mm JST connector x1