

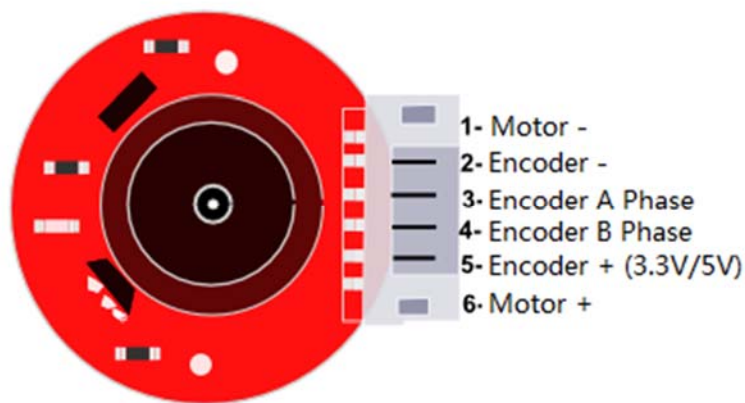


## Metal DC Geared Motor w/Encoder - 6V 100RPM 6.5Kg.cm

SKU:FIT0522

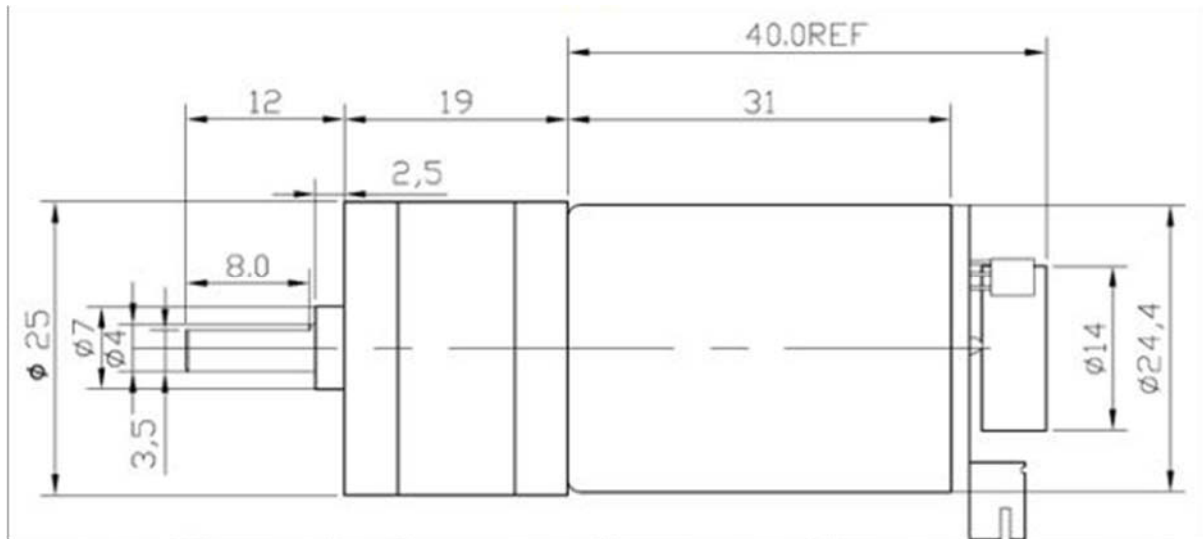
### INTRODUCTION

This is a metal geared DC motor w/Encoder. It is a 6V motor with a 75:1 metal gearbox and an integrated quadrature encoder that provides a resolution of 11 counts per revolution of the motor shaft, which corresponds to 823.1 counts per revolution of the gearbox's output shaft.



Pinmap

These units have an 10 mm length, 4 mm-diameter D-shaped output shaft. This motor is intended for use at 6V, though the motor can begin rotating at voltages as low as 1V. This motor is an ideal option for your mobile robot project.



Dimension

## SPECIFICATION

Motor Rated Voltage: 6V

Encoder Rated Voltage: 3.3 / 5V

Reducer Reduction Ratio: 1: 75

No load Speed: 100RPM@0.13A

Maximum Efficiency Point: Load 1.0kg·cm/80RPM/1.7W/0.5A

Maximum Power point: Load 3.0kg·cm/55RPM/2.8W/1.0A

Stall Torque: 6.5kg·cm

Stall Current: 3.0A

Hall Resolution: Hall Resolution 11x Precision Reduction Ratio 74.83=823.1PPR

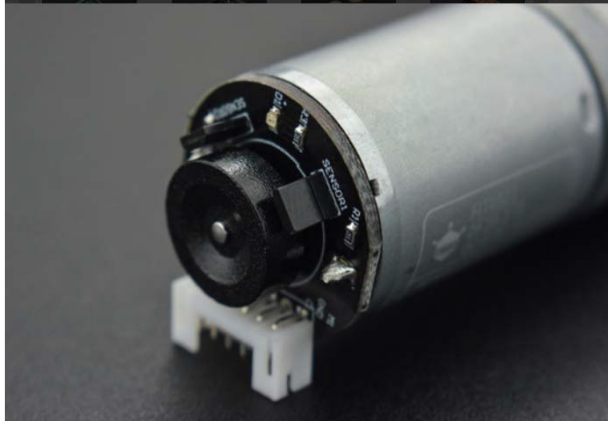
Dimension: 54 \*  $\phi 24.4$  mm / 2.13 \*  $\phi 0.96$  inches

Weight: 96g

## SHIPPING LIST

Metal DC Geared Motor w/Encoder - 6V 100RPM 6.5Kg.cm x1

JST 6-Pin cable x1



<https://www.dfrobot.com/product-1618.html/2-20-20>