Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Gravity: 130 DC Motor SKU: DFR0411

Gravity: 130 DC Motor

Contents

Introduction

Gravity 130 DC motor is a very interesting module, the module does not need additional motor driver board, you can use Arduino board to drive it easily. And the speed control could be realized with PWM signal. Very popular with DIY project

Specification

- Operating Voltage: 5v
- Interface type: Gravity 3-pin digital sensor interface
- Dimension: 52 * 27 mm
- Weight: 40 g

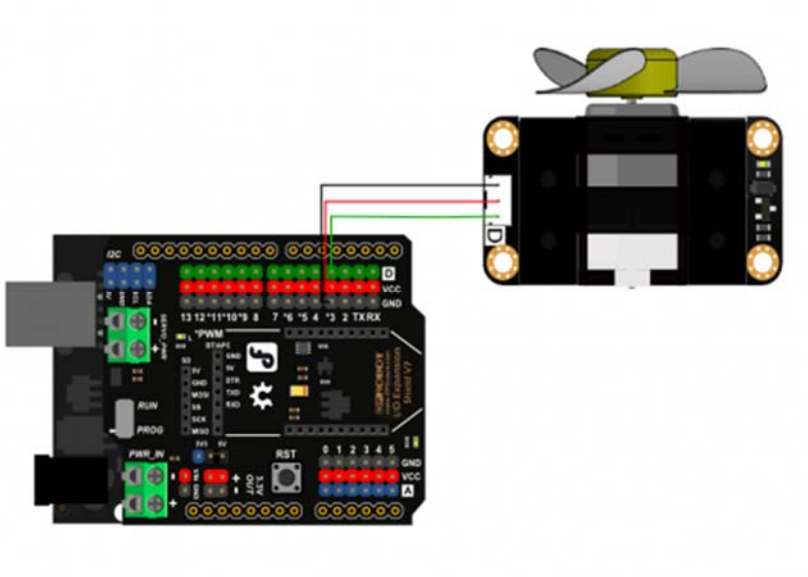
Tutorial

We will use Arduino to control module speed.

Preparation

- **Hardware**
  DFRduino UNO R3 x1
  IO Expansion Shield for Arduino V7.1 x1
  130 DC motor module x1
- **Software**
  Arduino IDE Version 1.6.5 Download Arduino IDE

Connection



connection diagram

Sample code

Copy the sample code, and paste it in the Arduino IDE

```
/* 130 DC Motor
 by DFRobot <https:www.dfrobot.com>

*/

int motorPin = 3;    //Motor drive pin D3
int motorSpeed;      //Define motor speed

void setup()
{
  Serial.begin(9600);
}

void loop()
{

  for(motorSpeed = 0 ; motorSpeed <= 255; motorSpeed+=5)
  {
    analogWrite(motorPin, motorSpeed);    //PWM speed contro
l
    delay(30);
  }
  for(motorSpeed = 255 ; motorSpeed >= 0; motorSpeed-=5)
  {
    analogWrite(motorPin, motorSpeed);    //PWM speed contro
l
    delay(30);
  }
```

```
}
```

FAQ

There are no questions about this product yet. If you have any problems or suggestions, you are welcome to email us or post on the DFRobot forum!

For any questions/advice/cool ideas to share, please visit the **DFRobot Forum**.