How to Run Stepper Motor with Arduino using L298N Driver Module

admin, March 29, 2018, Arduino, 10
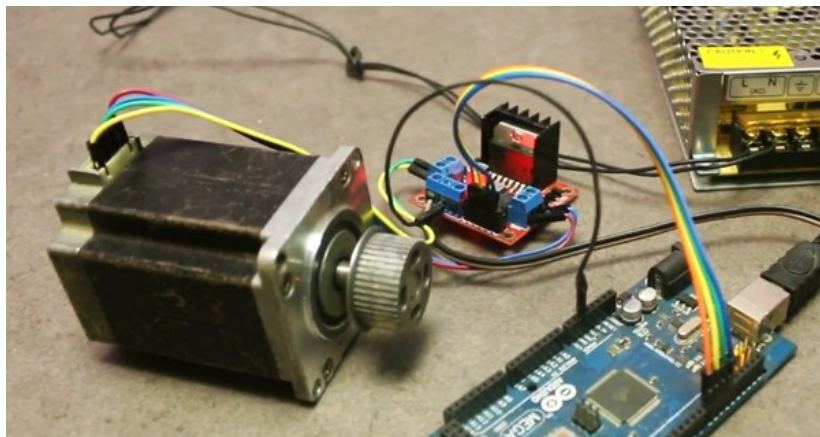
Hi Guys, In this post, I will demonstrate how you can run or control 6 wired unipolar stepper motor with Arduino using L298N driver module. The unipolar stepper motor has six wired but L298N driver module has two connectors either side to connect only four wire, I will show you how you can connect and run unipolar stepper motor with L298N driver.

What is L298N driver module

Arduino is running on 5 volts and it's current output only 500mAmp, so run any dc motor direct with Arduino, not a good idea. Here is the motor driver comes, L298N driver module works on 6 volts to 35 volts and maximum current output is 2Amp. You can run either one stepper motor or two dc motors with this driver module. Learn How to run two DC motor with L298N driver module

Step by step video guide for stepper motor, L298N driver and Arduino

Stepper motor and L298N driver connection circuit diagram

Recent Posts

- Arduino Contest
- Google Chrome Dino game playing bot
- Real Time Water Quality Monitoring System Using IOT
- Obstacle Avoidance Sanitization Robot
- GERIATRIC ROBOT

Recent Comments

- Gajala Washington on GERIATRIC ROBOT
- pitt on PIR Motion Sensor with Arduino
- Sai Amareswar on Bionic Arm and Sensory System
- Sai Amareswar on Bionic Arm and Sensory System
- Aniket Gupta on Smart Street Light for saving Electricity

Categories

- 3d Printer
- Arduino
- Circuits
- Contest

fritzing
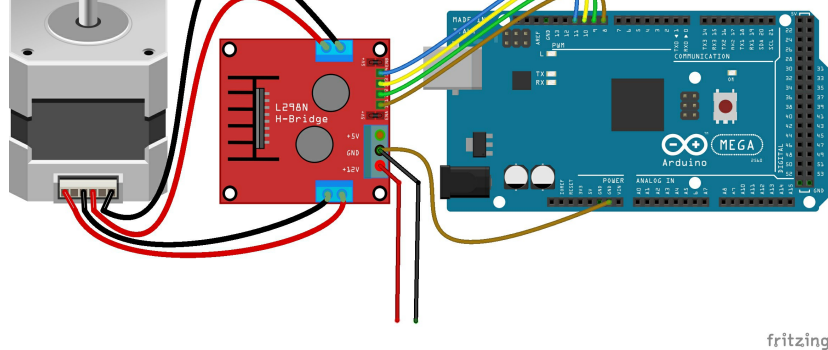
Arduino code for stepper motor and L298N driver module

```
#include

const int stepsPerRevolution = 200;
Stepper myStepper(stepsPerRevolution, 8, 9, 10, 11);

void setup() {

  myStepper.setSpeed(50);

  Serial.begin(9600);

void loop() {
  // step one for one direction:
  Serial.println("clockwise");
  myStepper.step(stepsPerRevolution);
  delay(400);

  // step one for other direction:
  Serial.println("counterclockwise");
  myStepper.step(-stepsPerRevolution);
  delay(400);
}
```

SHARE THIS

♡ 2 likes   f   🐦   G+   📌   ✉

RELATED ARTICLES
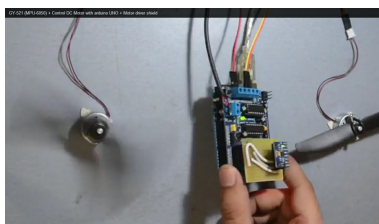
DC Motor Control with GY-521 Gyro/Accelerometer Module (MPU-6050) and L329D Arduino Driver Shield
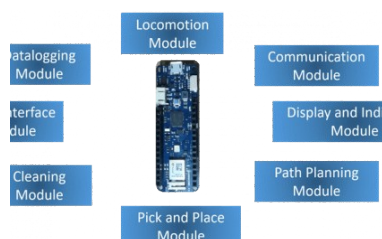
RoboDoctor – the robotic frontline warrior

Spread your Magic!

CircuitMagic is a platform where you can share your creations and DIY projects with the world. You can share the photo, video or step by step guide tutorial for the project.

Why publish here

Your ideas, your creativity... why only to yourself or to your friends. Share it with the whole world and spread your magic! Thousand's of users visit every day at CircuitMagic to post here their DIY projects. You can share with thousand's of people and make your follower.

Search

Categories

📁 3d Printer (6)

📁 Arduino (42)

📁 Circuits (1)

📁 Contest (2)

📁 Cool Projects (2)

📁 technology (1)

Here is, I am sharing the Arduino code for 2 diffrent DC motor control with MPU-6050 and Arduino UNO with...

AIM Ensuring the safety of the medical personnel such as doctors and nurses attending to corona affected patients and...

10 COMMENTS

orion
3 years ago

Wow I had no idea I could use an L298N as a stepper driver. Just a few fixes to your code example and it ran great!

REPLY

mhmoud
3 years ago

#include

```
const int stepsPerRevolution = 200;
Stepper myStepper(stepsPerRevolution, 8, 9, 10, 11);

void setup() {

myStepper.setSpeed(50);

Serial.begin(9600);
}

void loop() {

// step one for one direction:
Serial.println("clockwise");
myStepper.step(stepsPerRevolution);
delay(400);

// step one for other direction:
Serial.println("counterclockwise");
myStepper.step(-stepsPerRevolution);
delay(400);
}
```

REPLY

Anuradha Fernando
3 years ago

Perfectly working ok!

Thanks so much for sharing! I have tried with 12V 1A power supply. Also as a next step I gonna make a transistor array with 2SD1711 (which seems to be obsolete and very less expensive these days) So we can easily handle that power and heating problem.

Also see below the data sheets for the motor I have used 23KM-C057

http://cnc25.free.fr/documentation/moteurs%20pap/pap_nmb.pdf

All the best!
Anu

REPLY

Umer
2 years ago

Very good example now your video motivate me to buy aurdino . Can you please tell me is it possible that if I want to rotate stepper motor to specific angle ?

REPLY

SWAPAN KUMAR MANDAL 2 years ago

360 degree = 200 steps

REPLY

Bill

2 years ago

It is unfortunate that the L298n does not have any current control like the A4988 or other Pololu boards used in 3d printers. Some external circuitry is needed to limit the current. I will try the circuit I found here: bristolwatch.com/ele3/2a.htm

REPLY

deepak kumar

2 years ago

not working #include what is the next library we have to use ??

REPLY

SWAPAN KUMAR MANDAL

2 years ago

#include

REPLY

frank

2 years ago

Can I use the Mks Osc Stepper Motor Driving Controller Pulse Pwm Speed Reversing Cont T8J1
with the Arduino Uno and with my stepper motor Nema 23?
thanks,

REPLY

bob schmob

2 years ago

Does this code work with the Arduino Uno?

REPLY

Leave a reply

Your email address will not be published. Required fields are marked *

Comment

Name *   Email *   Website

☐ Save my name, email, and website in this browser for the next time I comment.

POST COMMENT

☐ Save my name, email, and website in this browser for the next time I comment.

POST COMMENT