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HIGH CURRENT 30A

DC MOTOR DRIVER

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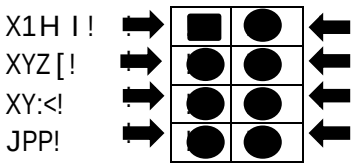
How to connect to Microcontroller (Arduino)



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Arduino Code

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/*
IBT-2 Motor Control Board driven by Arduino.

Speed and direction are separated in two functions.

Connection to the IBT-2 board:
IBT-2 pin 1 (RPWM) to Arduino pin 5(PWM)
IBT-2 pin 2 (LPWM) to Arduino pin 6(PWM)
IBT-2 pins 3 (R_EN), 4 (L_EN), 7 (VCC) to Arduino 5V pin
IBT-2 pin 8 (GND) to Arduino GND
IBT-2 pins 5 (R_IS) and 6 (L_IS) not connected
*/

int RPWM_Output = 5; // Arduino PWM output pin 5; connect to IBT-2 pin 1 (RPWM)
int LPWM_Output = 6; // Arduino PWM output pin 6; connect to IBT-2 pin 2 (LPWM)
int reversePWM;
int forwardPWM;

void setup()
{
  pinMode(RPWM_Output, OUTPUT);
  pinMode(LPWM_Output, OUTPUT);
}

void loop()
{
```

```
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// reverse rotation
for ( reversePWM=0;reversePWM<255;reversePWM++)
{

   analogWrite(LPWM_Output, 0);
   analogWrite(RPWM_Output, reversePWM);
}
delay(200);
   // forward rotation
for ( forwardPWM=0;forwardPWM<255;forwardPWM++)
{
   analogWrite(LPWM_Output, forwardPWM);
   analogWrite(RPWM_Output, 0);
}
delay(200);
}
```