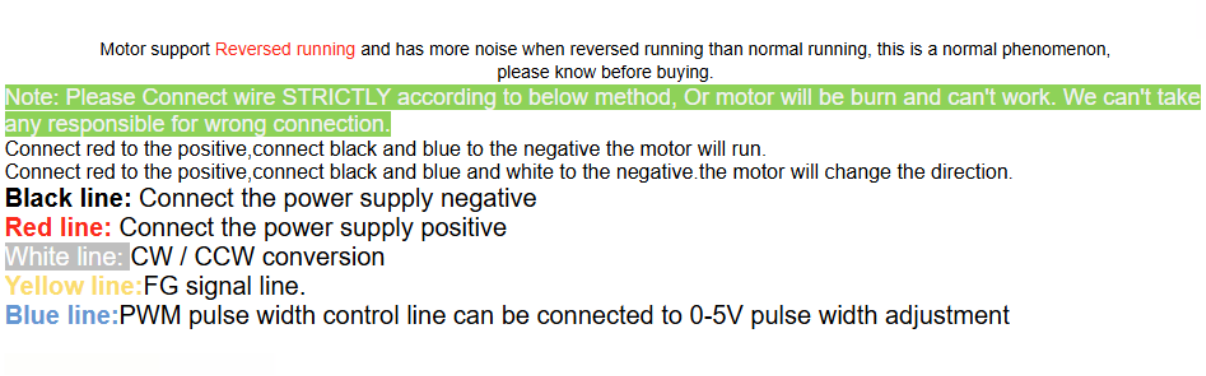
Drum Motor

How to connect and code for a nano or ESP32 to control the motor.



Motor Wire	Arduino
Blue (PWM)	D6
White (DIR)	D7
Red (V+)	12–24V
Black (GND)	Shared GND with Arduino

1. Add These Pin Definitions at the Top:

```
const int drumPwmPin = 6;   // PWM pin (connect to Blue wire)
const int drumDirPin = 7;   // Direction pin (connect to White wire
```

2. Add These to `setup()`:Make sure these lines are inside your `setup()` function

```
pinMode(drumPwmPin, OUTPUT);
pinMode(drumDirPin, OUTPUT);
```

3. Replace Your `handleDRUM()` With This Version:

```
void handleDRUM(uint8_t value) {
  if (value > 100) value = 100;  // Clamp value to 100
  int pwmValue = map(value, 0, 100, 0, 255);  // Scale 0-100 to 0-255

  if (value != 0) {
    digitalWrite(drumDirPin, HIGH);         // Set motor direction (HIGH = CW)
    analogWrite(drumPwmPin, pwmValue);      // Apply PWM speed
    setValue(&sendBuffer[drumByte], value); // Update protocol buffer
  } else {
    analogWrite(drumPwmPin, 0);             // Stop motor
    setValue(&sendBuffer[drumByte], 0);
  }

  lastEventTime = micros();
}
```

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