Controlling of SERVO DH-03X using Arduino UNO

The Wiring Diagram

Servo Motor (DH-03X) -------------- Arduino Uno

Signal Pin ----------------------- Digital Pin 10

Power Pin (+) -------------------- 5V

Ground Pin (-) ------------------- GND

Diagram

Description automatically generated

The Code

Code1:

#include <Servo.h>

Servo myservo; // create servo object to control a servo

int potpin = 0; // analog pin used to connect the potentiometer

int val; // variable to read the value from the analog pin

void setup() {

myservo.attach(9); // attaches the servo on pin 9 to the servo object

}

void loop() {

val = analogRead(potpin); // reads the value of the potentiometer (value between 0 and 1023)

val = map(val, 0, 1023, 0, 180); // scale it to use it with the servo (value between 0 and 180)

myservo.write(val); // sets the servo position according to the scaled value

delay(15); // waits for the servo to get there

}

Code 2:

#include <Servo.h>

Servo myservo; // create servo object to control a servo

void setup()

{

myservo.attach(9); // attaches the servo on pin 9 to the servo object

}

void loop()

{

for(int i=0; i<180; i++) // 0 to 180 degrees

{

myservo.write(i); // tell servo to go to position in variable 'pos'

delay(15); // waits 15ms for the servo to reach the position

}

for(int i=180; i>=0; i--) // 180 to 0 degrees

{

myservo.write(i); // tell servo to go to position in variable 'pos'

delay(15); // waits 15ms for the servo to reach the position

}

}

Reference

<https://docs.arduino.cc/learn/electronics/servo-motors>

https://playground.arduino.cc/Learning/SingleServoExample/