

# Smart Maker

Circuits for Examples

# Part List



LED



330Ω



10kΩ

Resistor



Push Button



Color LED



Potentiometer



Buzzer



Soft  
Potentiometer



Flex Sensor



DC Motor



Diode  
(1N4148)



TMP36



Servo Motor

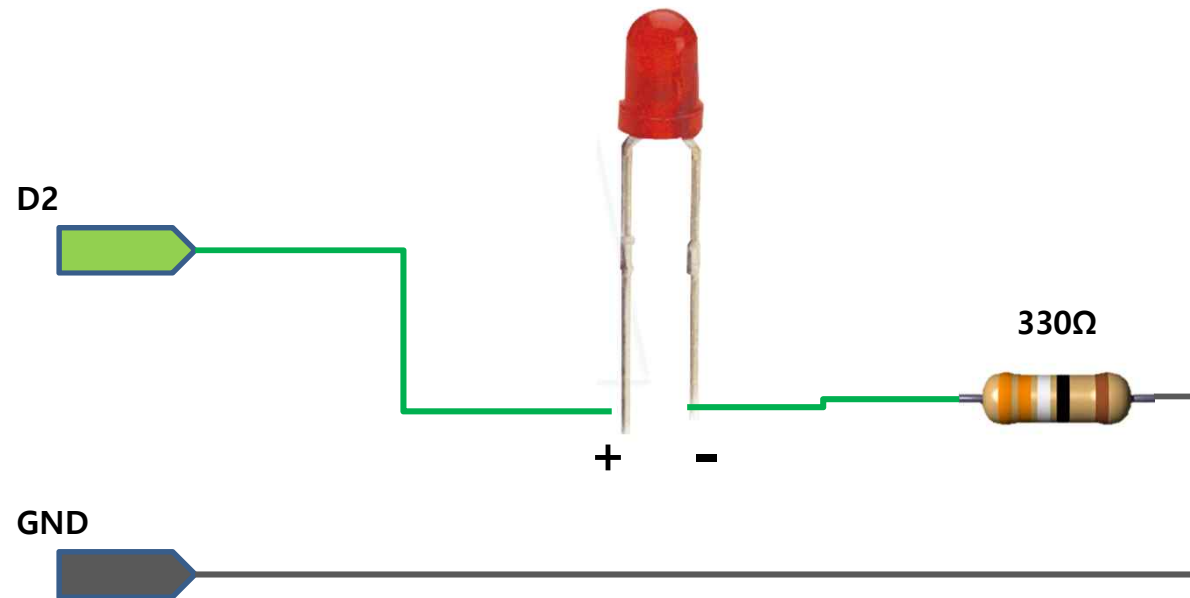


Transistor  
(P2N2222AG)



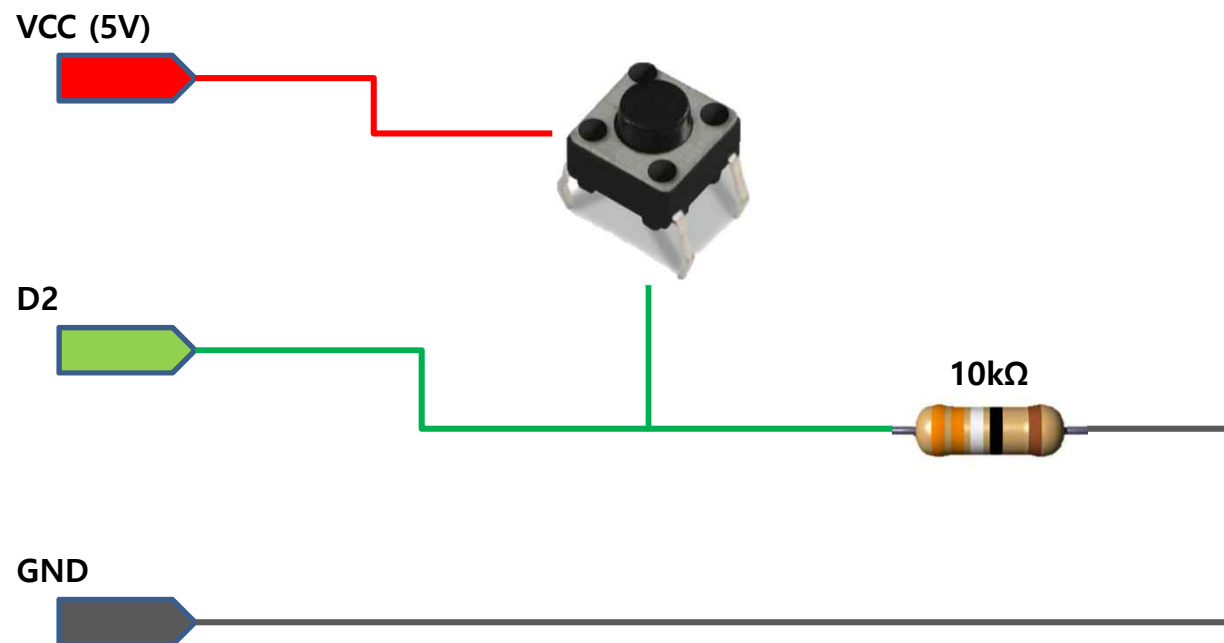
Photo  
Resistor

# LED Circuit



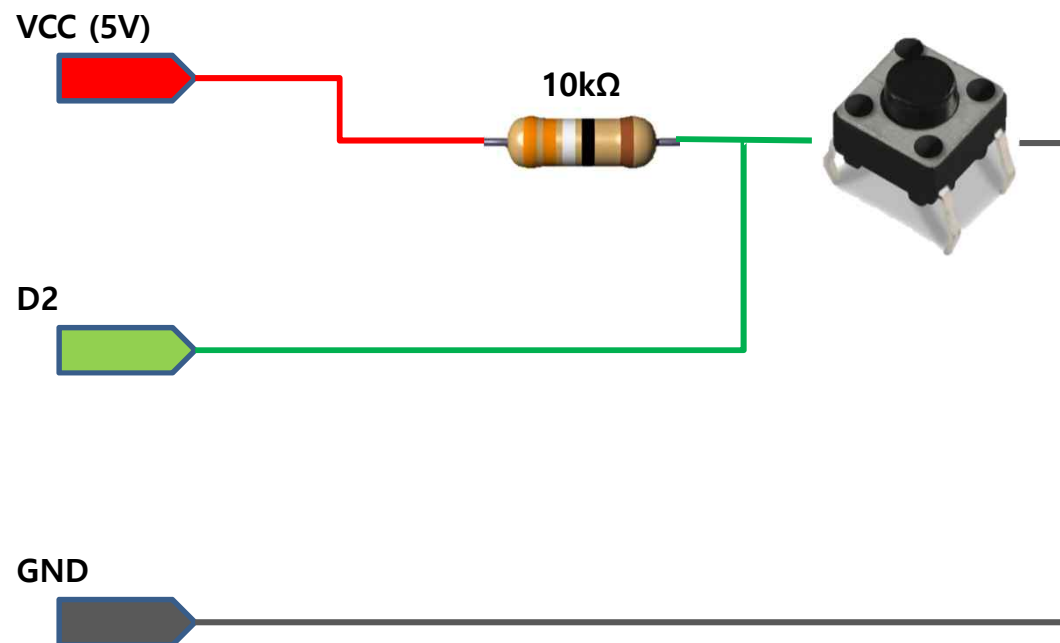
# Push Button Circuit

- External Pull-down type
- Press HIGH



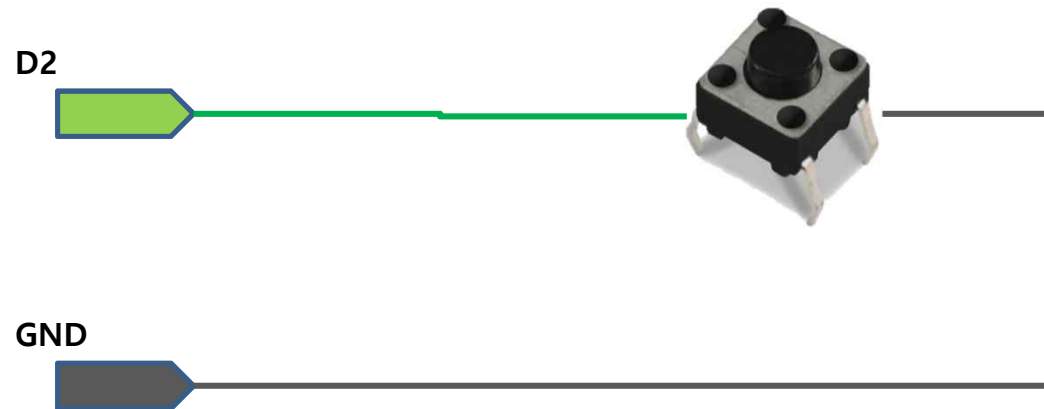
# Push Button Circuit

- External Pull-up type
- Press LOW

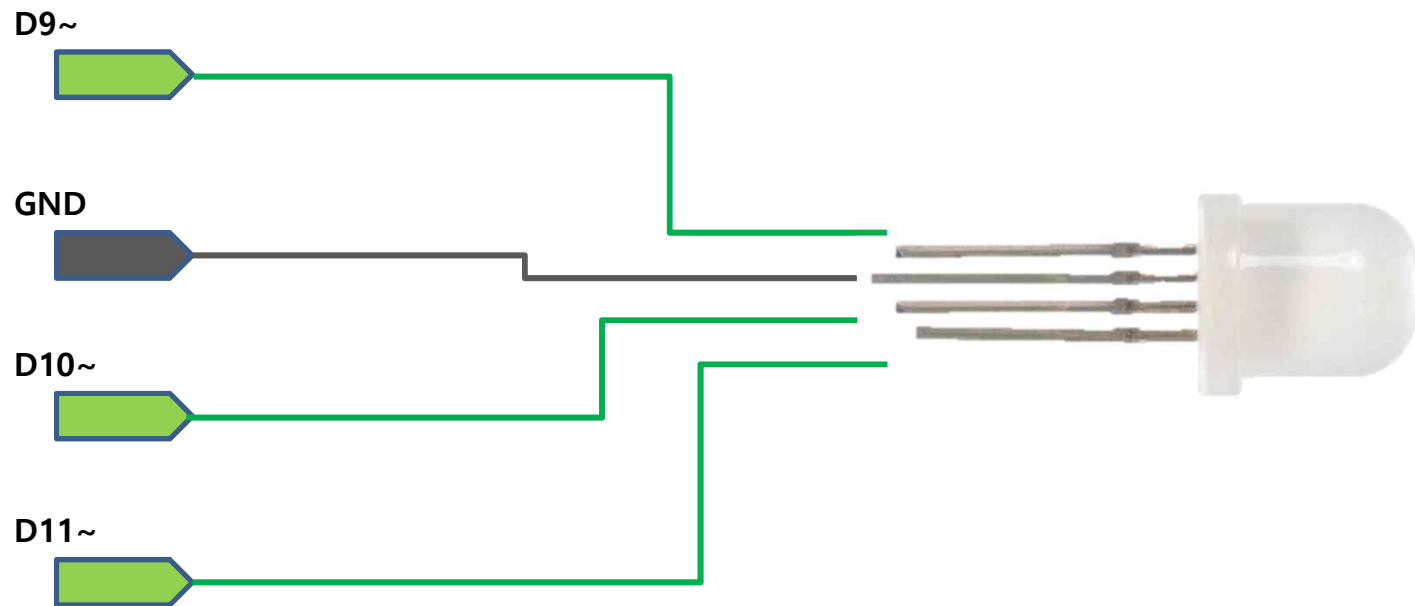


# Push Button Circuit

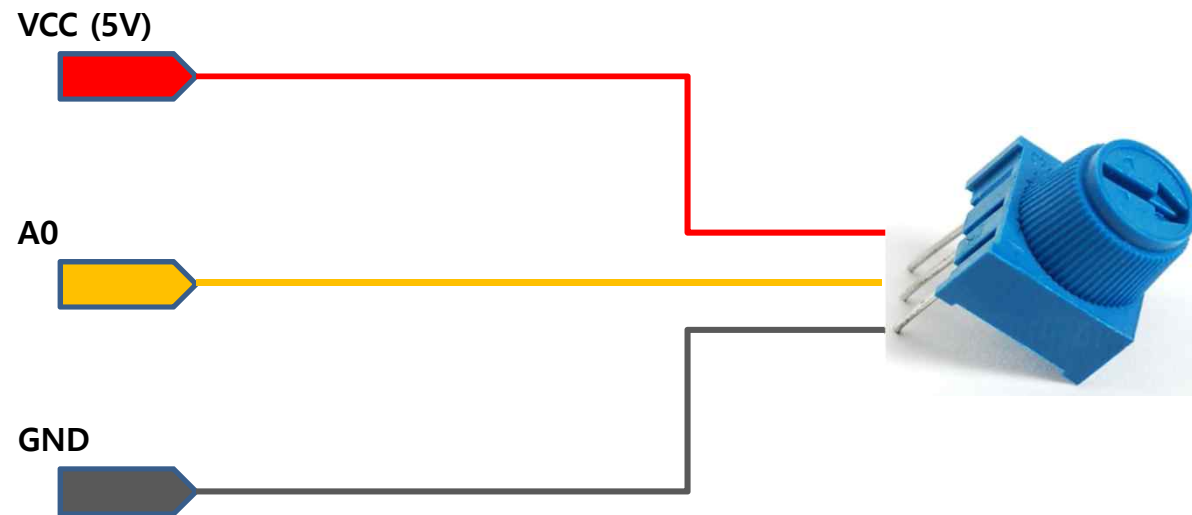
- Internal Pull-up type
- Press LOW



# Color LED Circuit



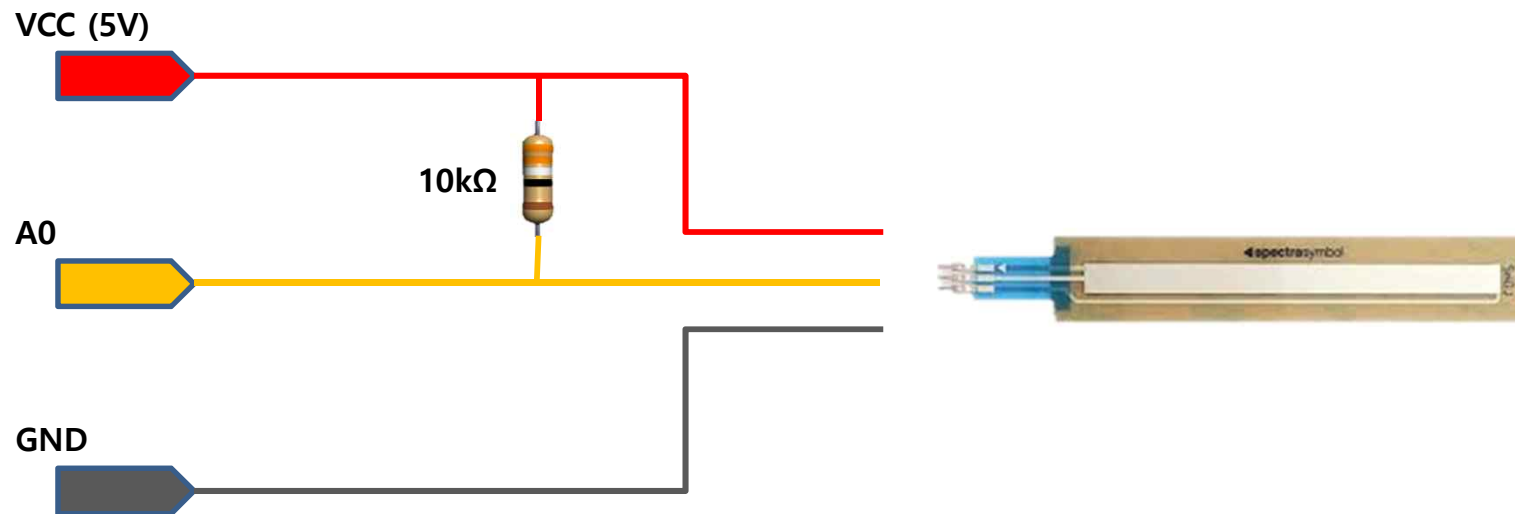
# Potentiometer Circuit





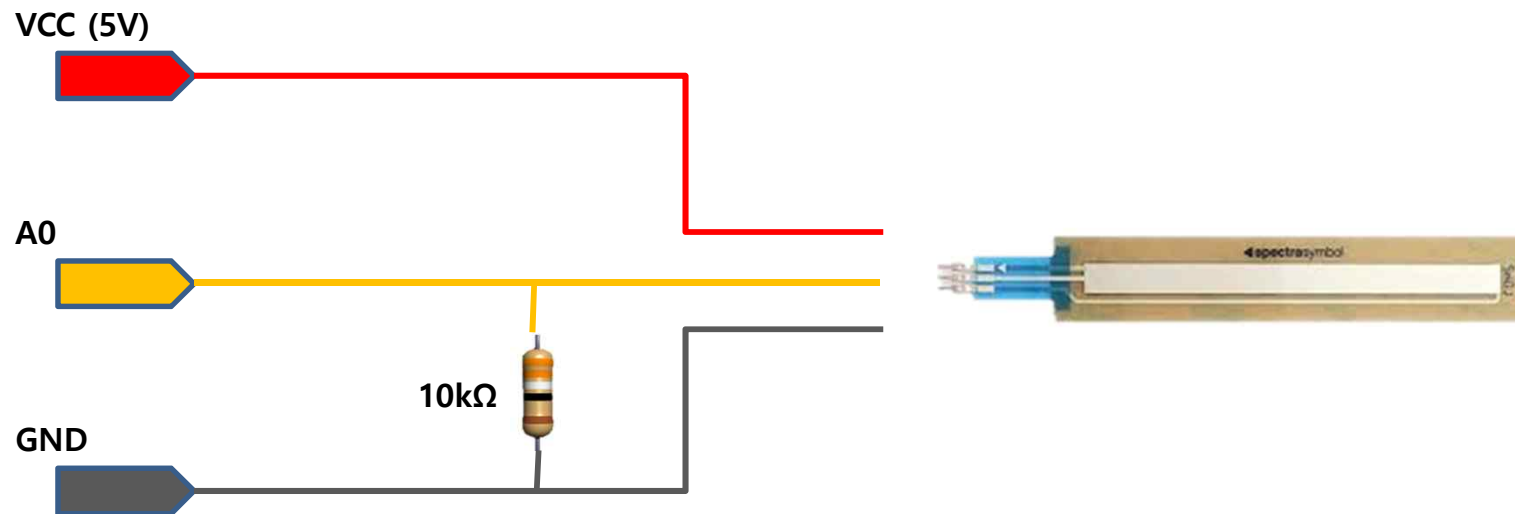
# Soft Potentiometer Circuit

- Pull-up type
- Default VCC input

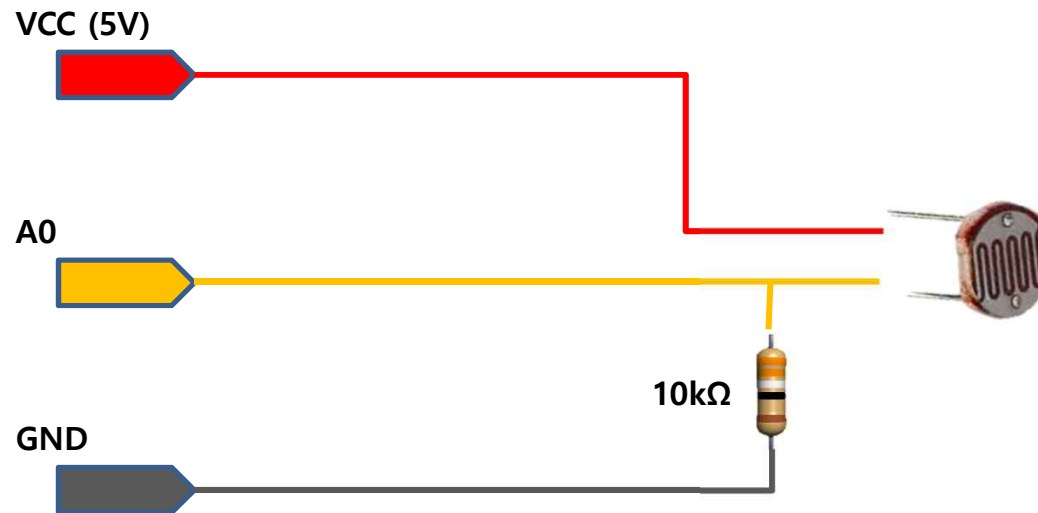


# Soft Potentiometer Circuit

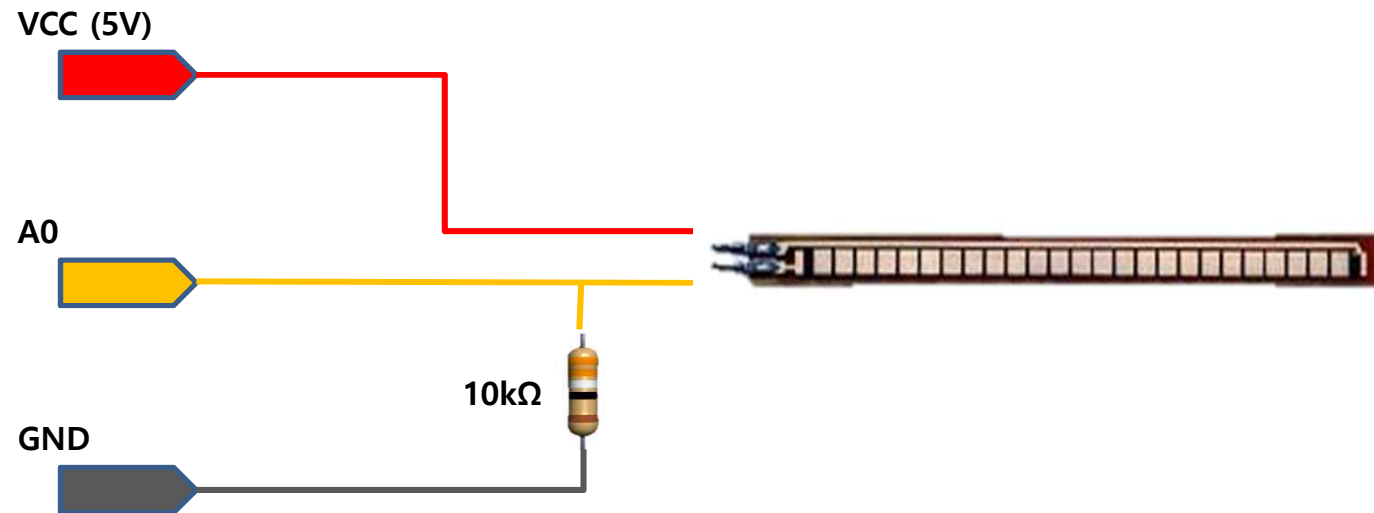
- Pull-down type
- Default GND input



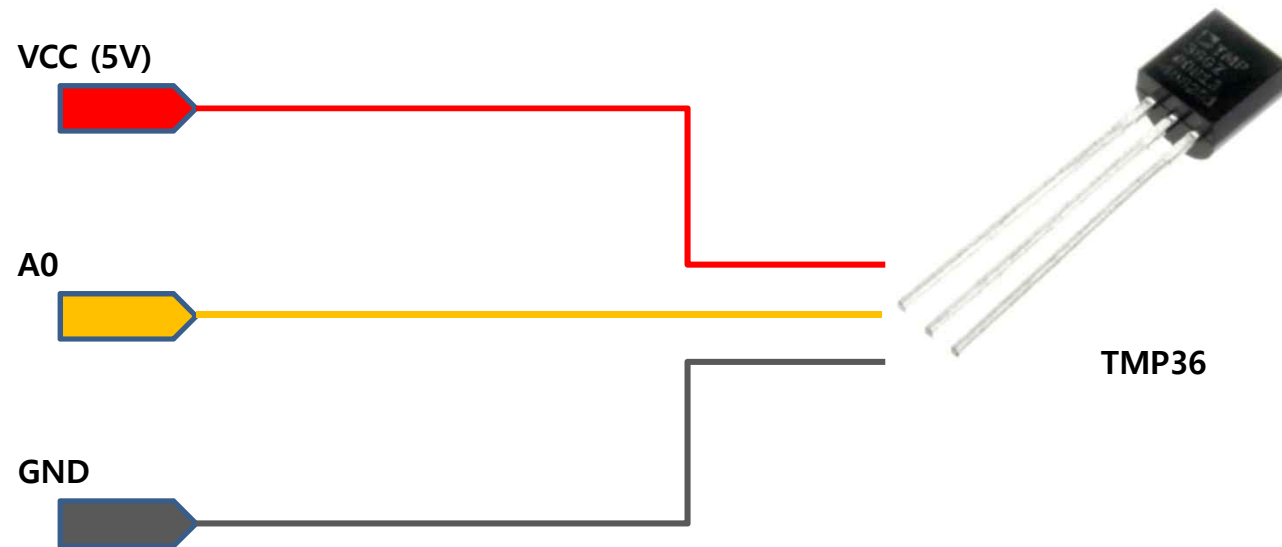
# Photo Resistor Circuit



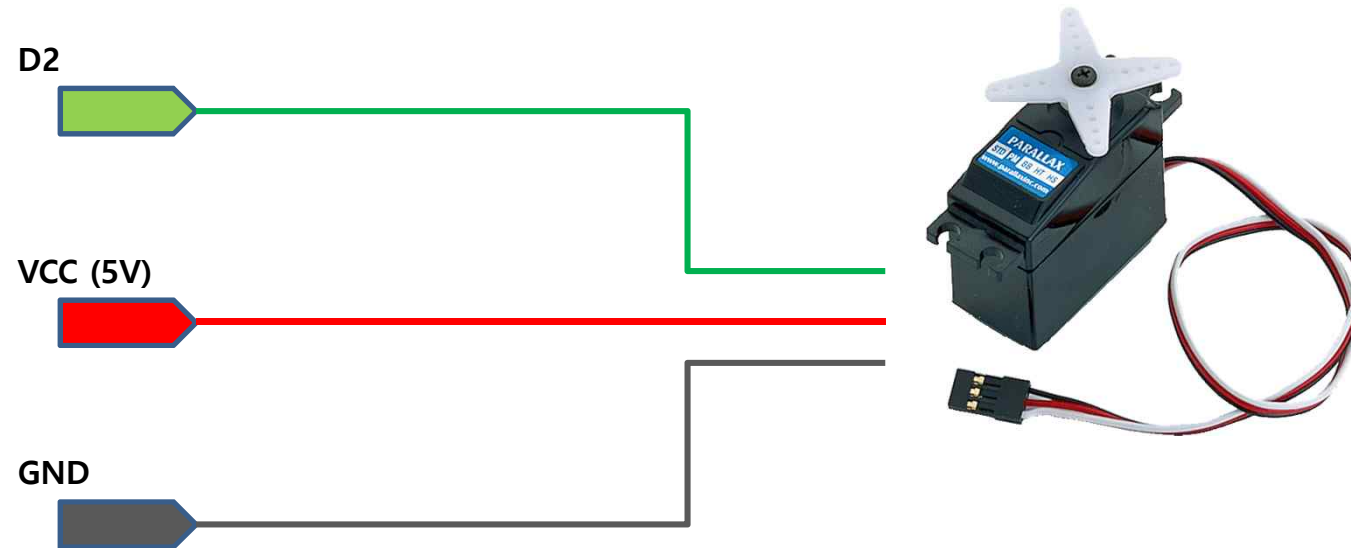
# Flex Sensor Circuit



# Temperature Circuit

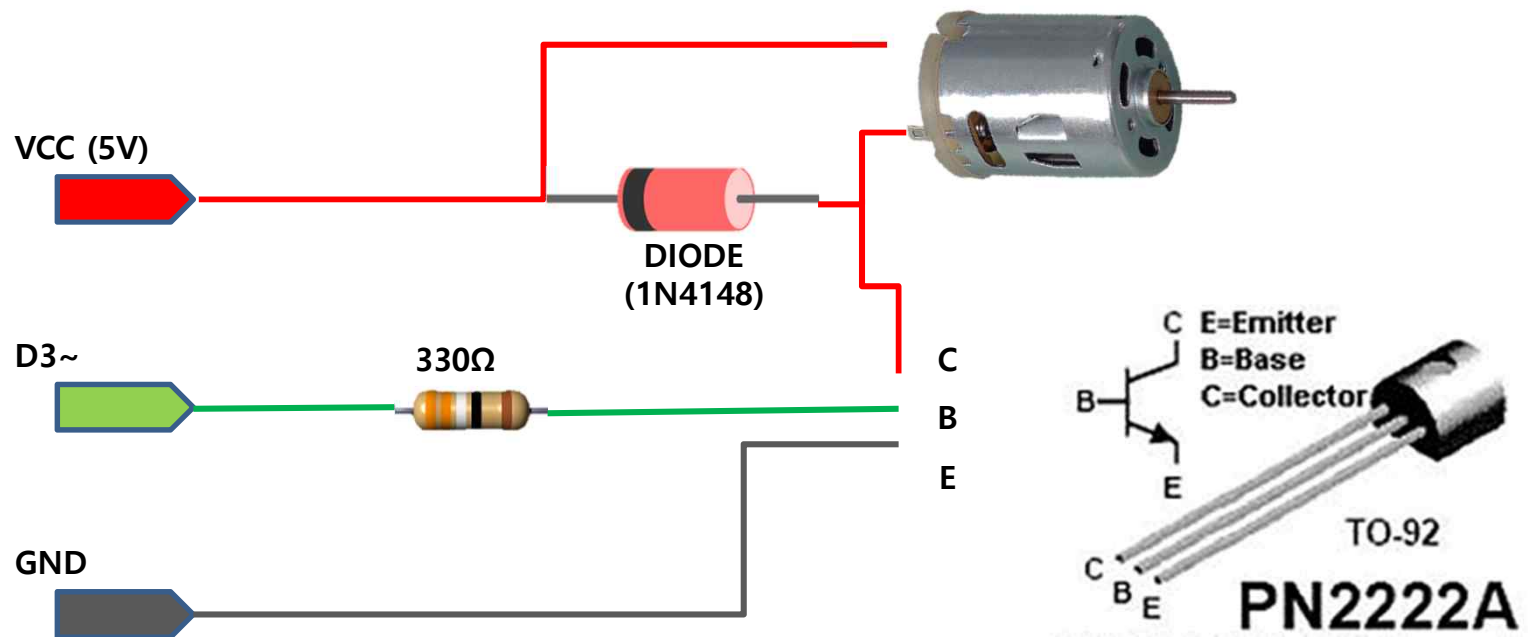


# Servo Motor Circuit



# DC Motor Circuit

- No Direction Control
- Only Speed Control



# Buzzer Circuit

