Pushbutton to GND

- **Pin Goes LOW when button pressed**

Pushbutton to 5V

- **Pin Goes HIGH when button pressed**

Using Internal Pullup

Pushbutton to 5V

- **Pin Goes LOW when button pressed**

Trimmer or Potentiometer

- **Pin Goes HIGH when button pressed**

Photoresistor

- **Pin Goes LOW when button pressed**

Optocoupled inputs

- Used when galvanic separation between external circuitry and Arduino circuit is required

Pushbutton to 12V

- Should you need to connect Arduino inputs to a DC voltage higher than 5V

- **Pin Goes HIGH when button pressed**

- **Pin Goes LOW when button pressed**

When using this circuit for 24 volts input increase R to 2200Ω.

To reduce the interferences add a capacitor.

Using Internal Pullup

- When using this circuit for 24 volts input increase R to 2200Ω.

- To reduce the interferences add a capacitor.
Connect a Mosfet

Relay goes ON when pin is set to HIGH

Relay

Connect a Relay

+5V ... 12V

Connect an Audio Amplifier

Connect a Buzzer

Recommended only for Switch or in Low frequency applications.