

## Pushbutton

A pushbutton is a momentary switch that connects or disconnects an electrical circuit when pressed.

### **Working Principle:**

When the button is pressed, it completes the circuit by allowing current to flow between its terminals. When released, the circuit is broken. It is typically used for user inputs.

### **Types:**

- Momentary (Normally Open / Normally Closed)
- Toggle Pushbutton
- Illuminated Pushbutton

### **Applications:**

- User interface controls
- Reset or power switches
- Elevator buttons
- DIY electronics projects

### **Advantages:**

- Simple and reliable
- Easy to interface with microcontrollers
- Affordable and widely available

### **Disadvantages:**

- Mechanical wear over time
- Contact bounce (requires debouncing in code)



Fig: Push Button