Push Button

A **push button** is a simple mechanical switch that controls the flow of current in a circuit. It is typically used to turn a device **ON or OFF** by momentarily making or breaking an electrical connection.

Working Principle:

When the button is **pressed**, the internal contacts **connect**, allowing current to flow. When released, the contacts **disconnect**, breaking the circuit. It can be **normally open (NO)** or **normally closed (NC)**:

- **NO (Normally Open):** Circuit is open when not pressed, closes when pressed.
- **NC (Normally Closed):** Circuit is closed when not pressed, opens when pressed.

Common Applications:

- Electronic circuits and microcontrollers (Arduino, Raspberry Pi)
- Doorbells and alarms
- Keyboards and control panels
- Industrial and household appliances