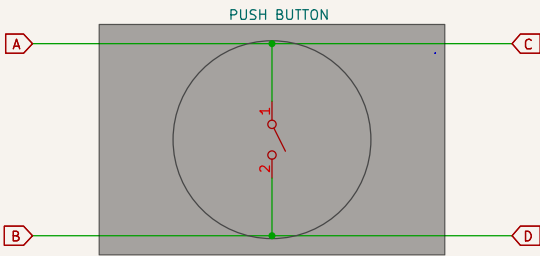


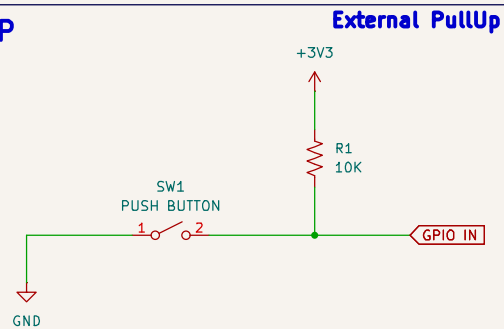
DIGITAL INPUT – PUSHBUTTON

This is a simple momentary pushbutton switch, used for manually & momentarily closing circuit paths.

- A & C are always connected.
- B & D are always connected.
- When button is pressed, switch is closed...
- ... and any signal present at either A or C will be present at B & D, & vice-versa.

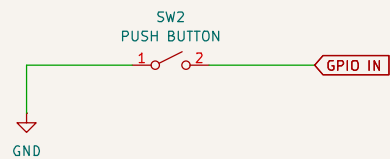


BUTTON: PULL-UP

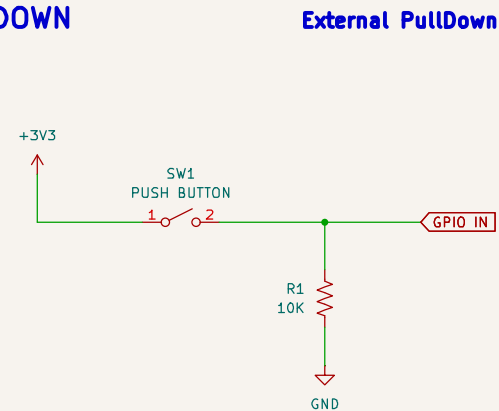


- Button is "pulled-up" to +3V3 when not pressed.
- When button is open, GPIO reads 1.
- When button is closed (button pressed), GPIO reads 0.
- Many MCUs have Internal PullUp resistors, but these must be enabled in software.

Internal PullUp



BUTTON: PULL-DOWN



- Button is "pulled-down" to GND [0V] when not pressed.
- When button is open, GPIO reads 0.
- When button is closed (button pressed), GPIO reads 1.
- ESP32 MCU also has External PullDown resistors enabled via software.

Internal PullDown

