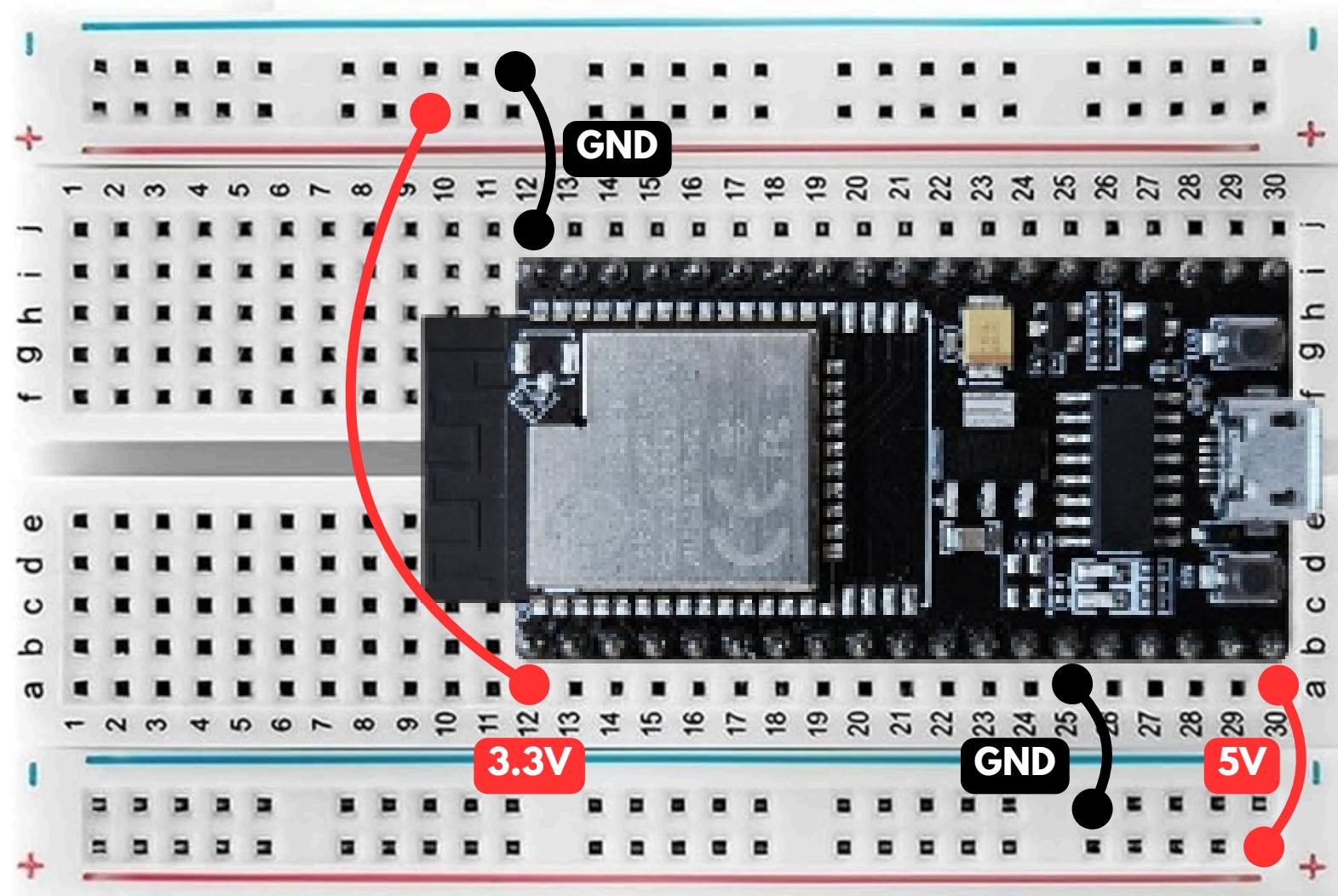


VCC Connection

- Connect the 3.3V pin on the ESP32 to the 3.3V (+ve) rail on the breadboard.
- Connect the 5.0V pin on the ESP32 to the 5.0V (+ve) rail on the breadboard.

GND Connection

- Connect a GND (Ground) pin on the ESP32 to the GND (-ve) rail on the breadboard.

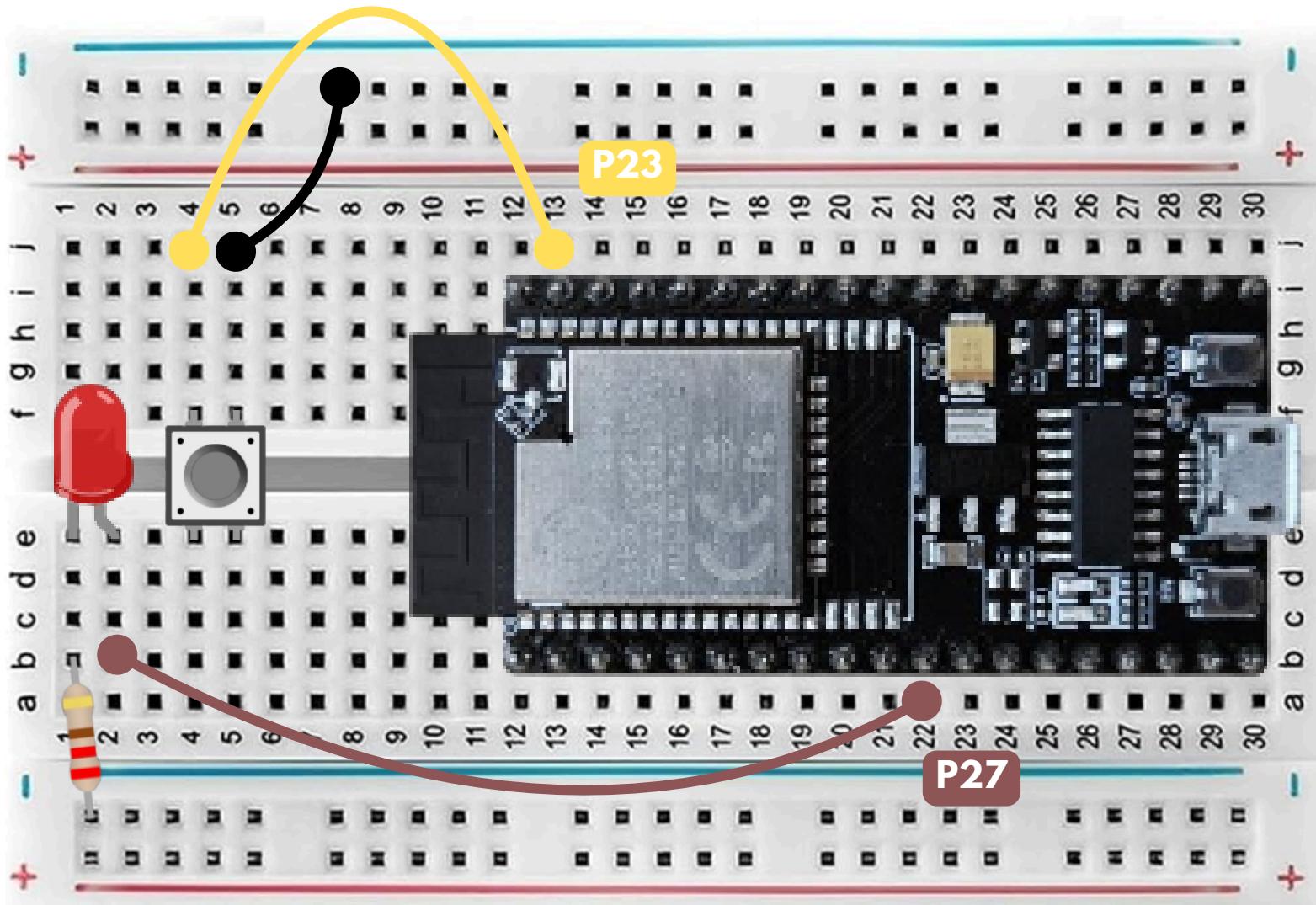


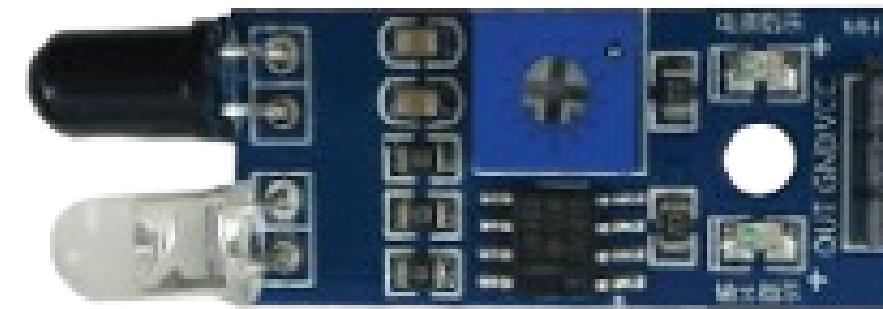
LED Connection

- Anode (+): Connect to P27 on the ESP32 (via a 220Ω resistor).
- Cathode (-): Connect to the GND rail on the breadboard.

Button Connection

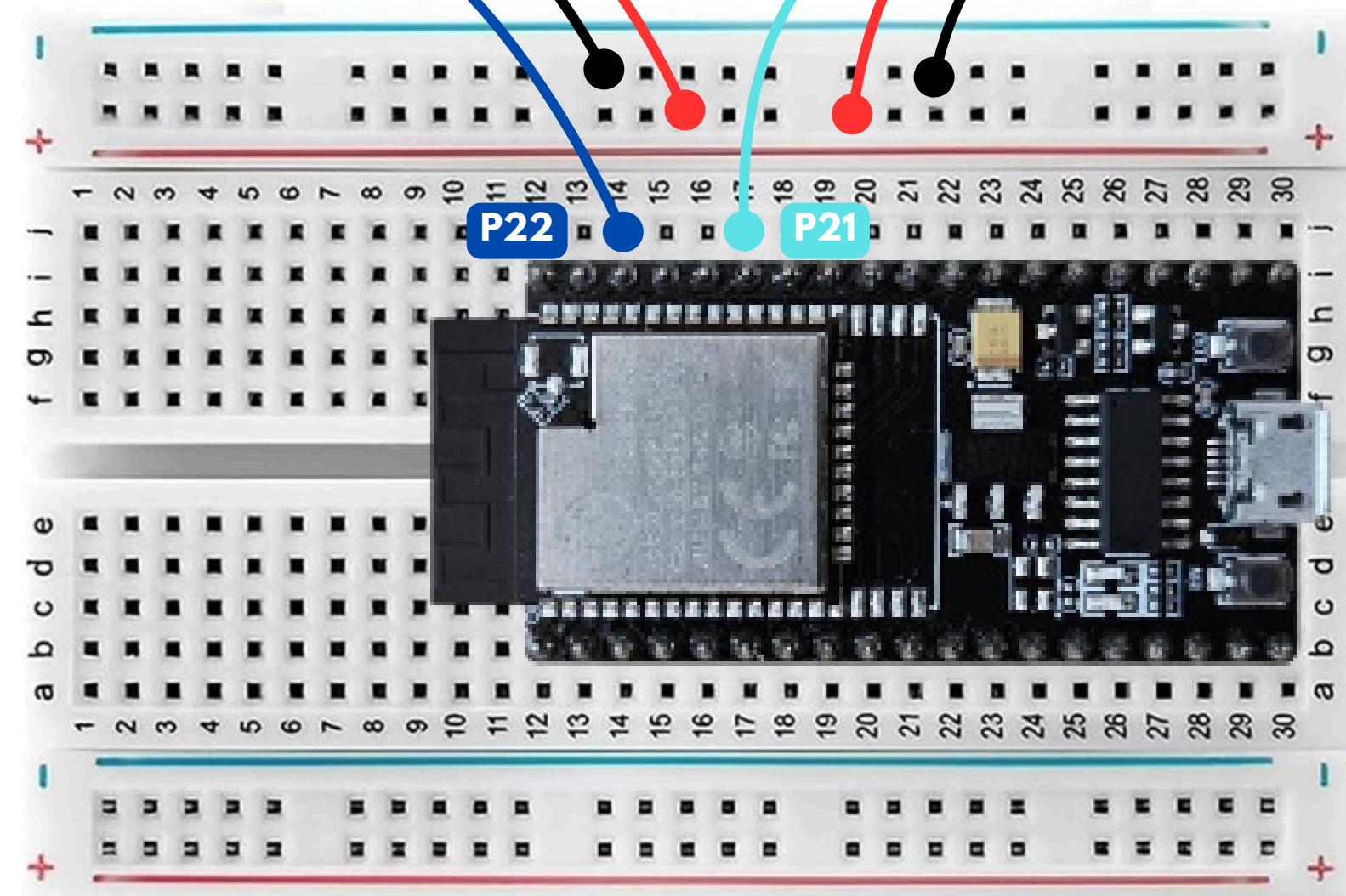
- VCC: One side of the button connects to the 3.3V rail on the breadboard.
- Signal Pin: Connect the other side of the button to P23 on the ESP32.





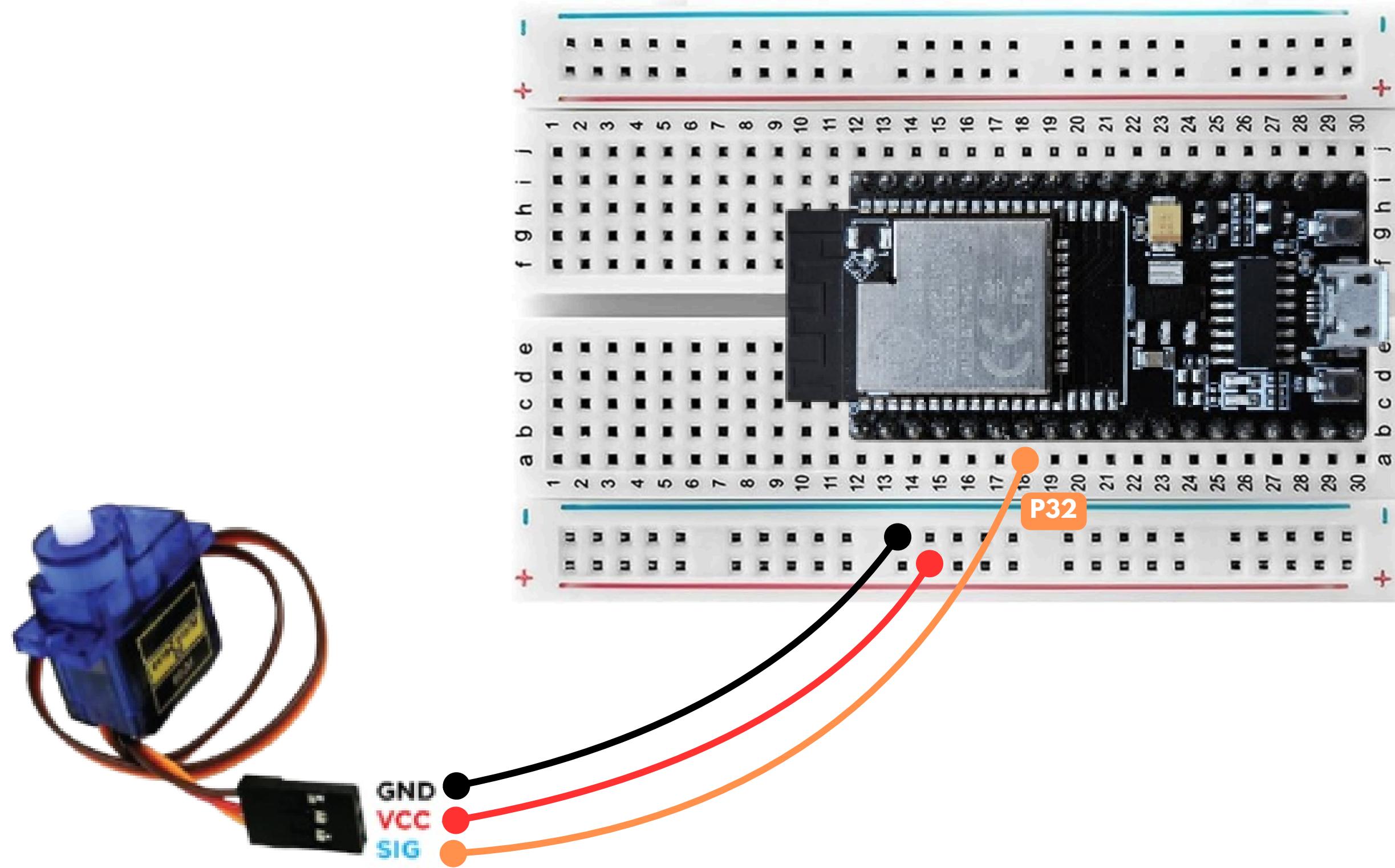
Main Bedroom IR Sensor Connection (IR_PIN_1)

- VCC: Connect to the 3.3V rail on the breadboard.
- GND: Connect to the GND rail on the breadboard.
- Signal Pin: Connect the signal pin of this IR sensor to P21 on the ESP32.



Near-Bed IR Sensor Connection (IR_PIN_2)

- VCC: Connect to the 3.3V rail on the breadboard.
- GND: Connect to the GND rail on the breadboard.
- Signal Pin: Connect the signal pin of this IR sensor to P22 on the ESP32.



Servo Motor Connection

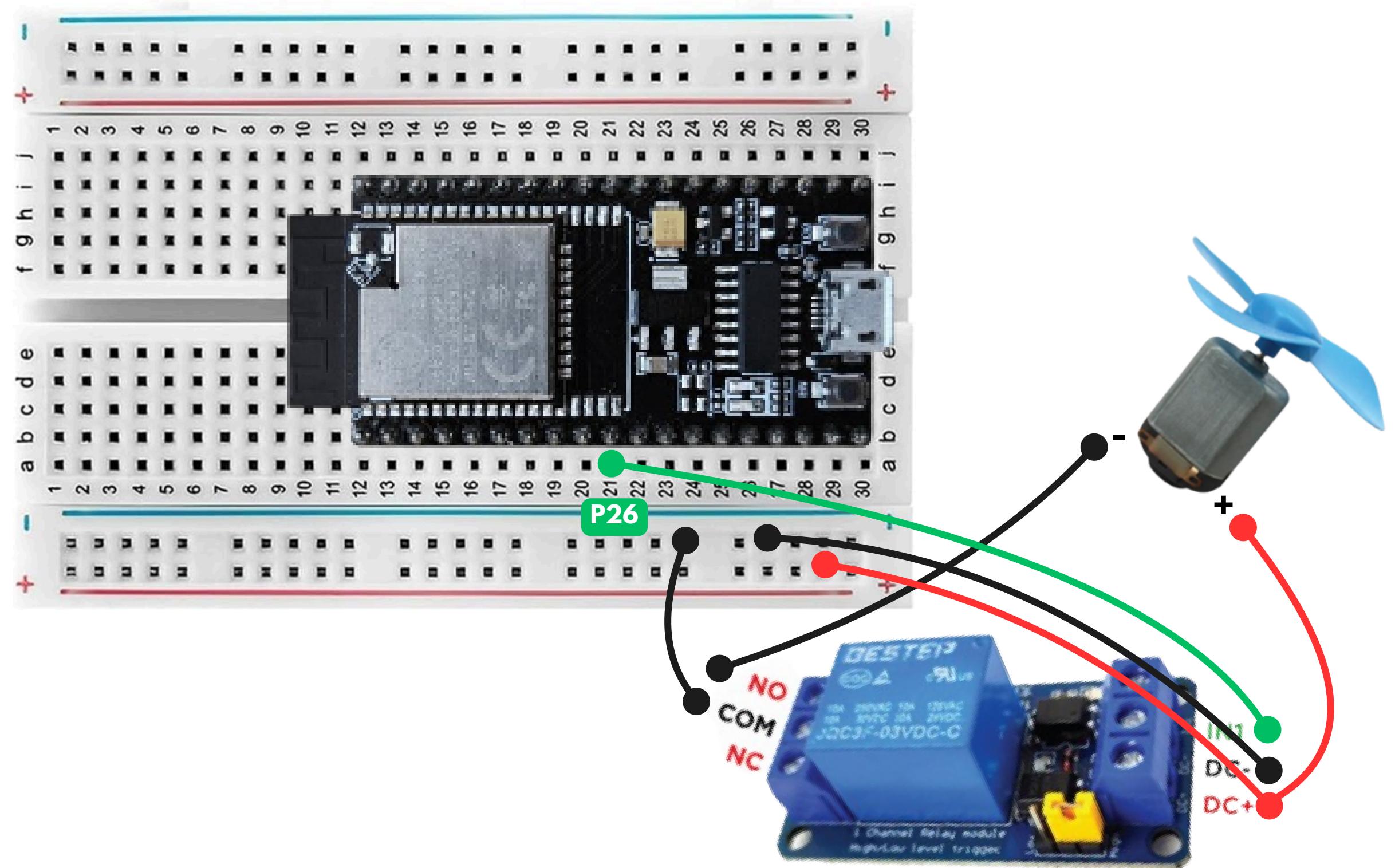
- VCC: Connect to the 5V rail on the breadboard.
- GND: Connect to the GND rail on the breadboard.
- Control Pin: Connect the servo's signal/control wire to P32 on the ESP32.

Relay Module Connection

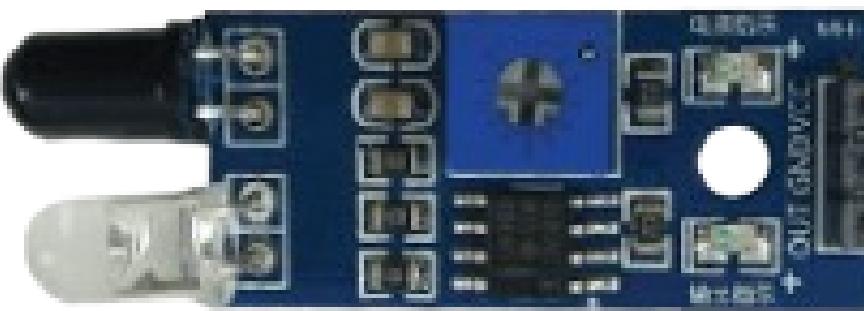
- VCC (Power): Connect to the 3.3V or 5V rail on the breadboard.
- GND (Ground): Connect to the GND rail on the breadboard.
- IN (Control Pin): Connect to P26 on the ESP32. This pin controls the relay's ON/OFF state.

Fan Connection

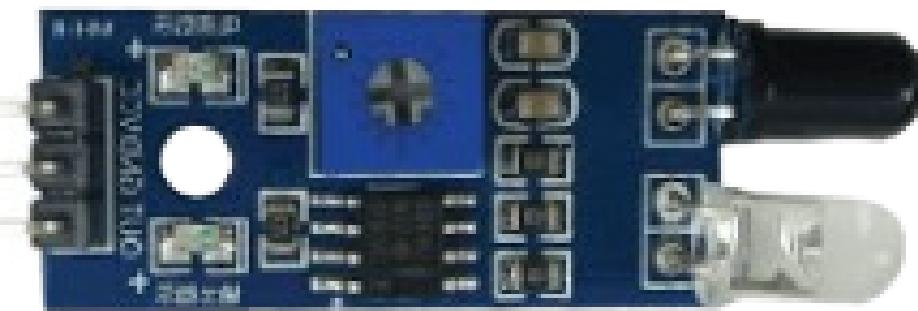
- Negative Wire (black): Connects to the relay's NO (Normally Open) terminal.
- Positive Wire (red): Connects to the relay's DC+ terminal.



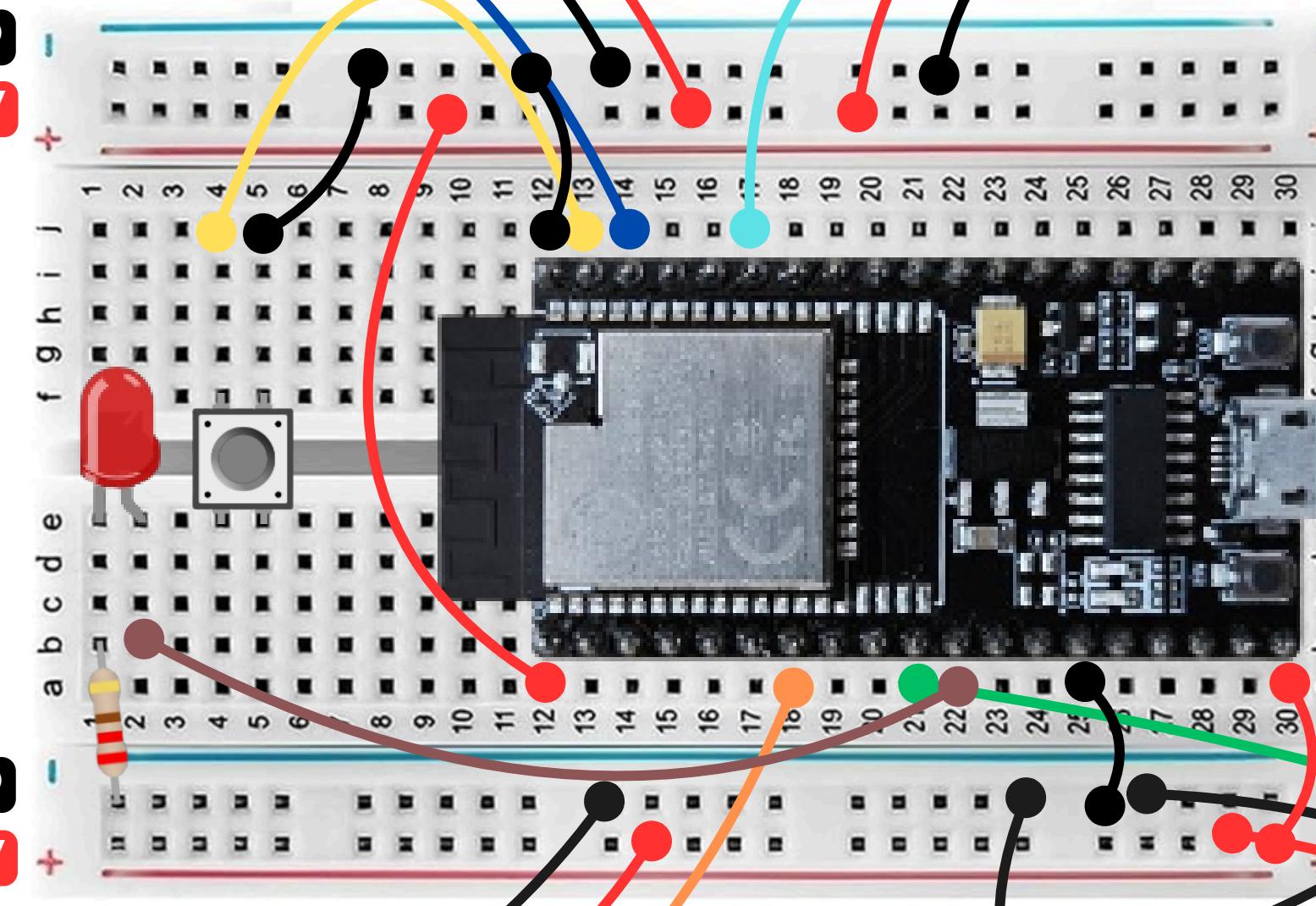
P21 Bed IR Sensor



P22 Main Bedroom IR Sensor



GND
3.3V



GND
5.0V



P26 Relay



P32 Servo

