



# KAmoRPi Zero 2Relay



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Źródło: [https://wiki.kamamilabs.com/index.php?title=KAmoRPi\\_Zero\\_2Relay](https://wiki.kamamilabs.com/index.php?title=KAmoRPi_Zero_2Relay)

# Table of contents

Description .....
Basic Features and Parameters .....
Standard Equipment .....
Electrical Schematic .....
Assignments of outputs to the GPIO lines of Raspberry Pi Zero .....
Indicator LEDs .....
Relay Outputs .....
Links .....

1
1
1
2
3
4
4
5

## Description

KAmoRPi Zero 2Relay is a two-relay shield module designed for the Raspberry Pi Zero. It allows you to control devices with an operating voltage of up to 250 V AC and a current of up to 3 A or a voltage of 30 V DC and a current of 3 A. In addition to the power supply indicator, the board also features LEDs to indicate the relay's activation status. The module is suitable for home automation, industrial, and security applications.



## Basic Features and Parameters

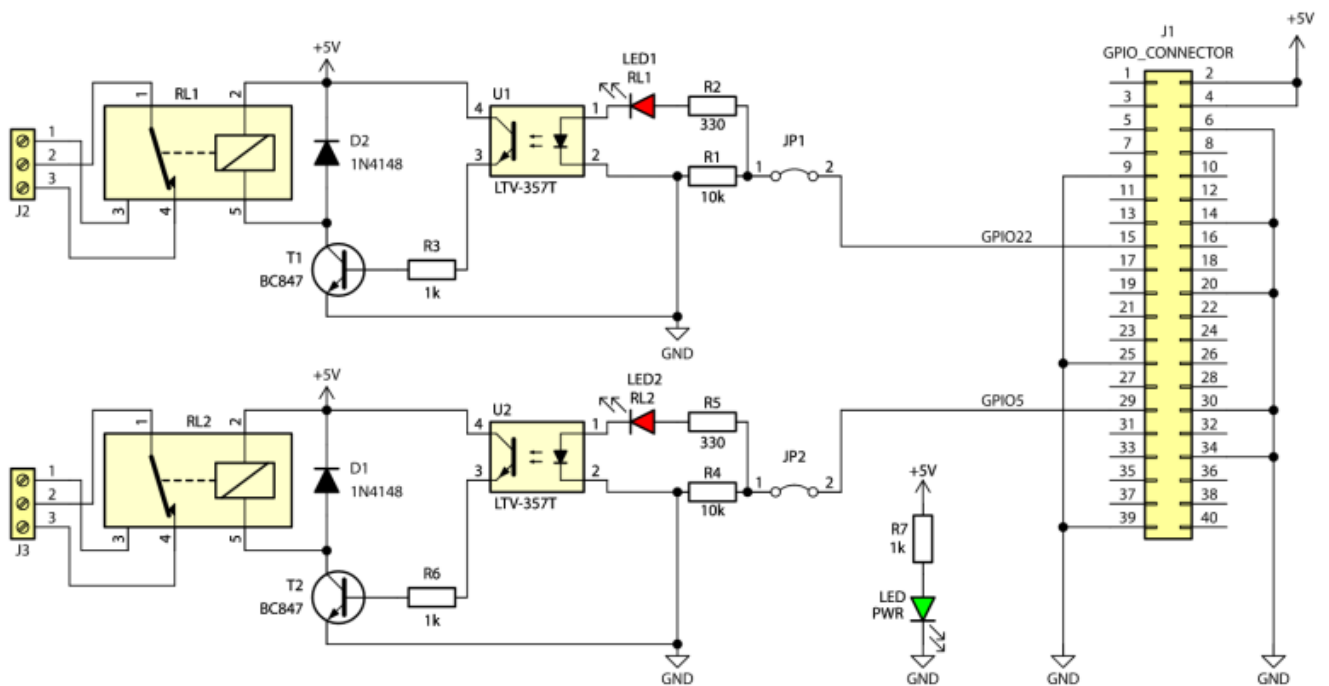
- 2 x SPDT relays 10A 250V AC or 10A 30V DC
- LEDs indicating relay status
- LED indicating supply voltage
- Optoisolated inputs
- 40-pin RPi connector
- ARK screw terminals
- Jumpers to disable the default Raspberry Pi relay control lines
- Operating voltage: 5V
- PCB dimensions: 30 x 65 mm

## Standard Equipment

| Code                       | Description                                                           |
|----------------------------|-----------------------------------------------------------------------|
| <b>KAmoRPi Zero 2Relay</b> | • Assembled and powered-up module                                     |
| <b>Mounting Kit</b>        | • Set of screws and spacers for mounting the adapter to the RPi board |

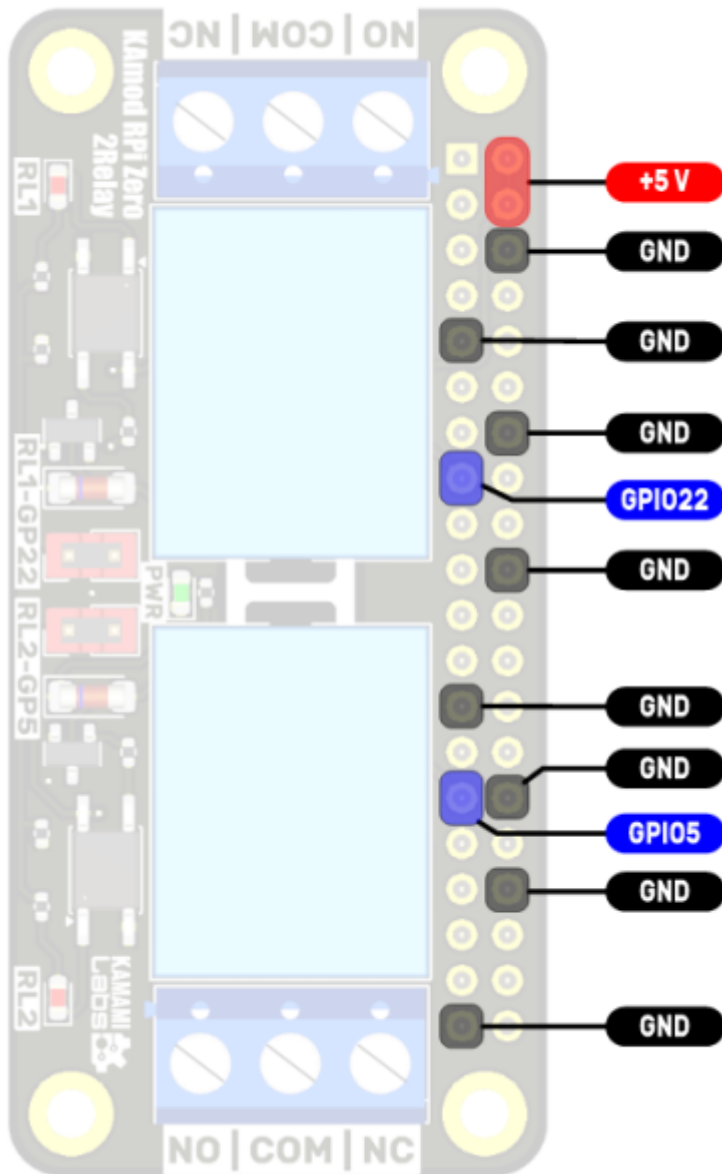


## Electrical Schematic

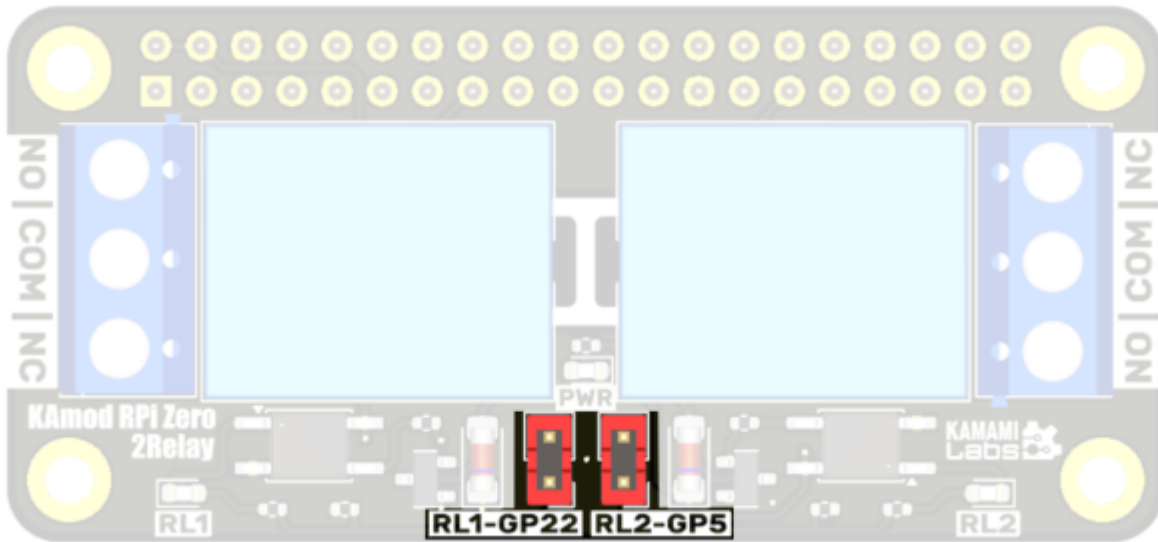


## Assignments of outputs to the GPIO lines of Raspberry Pi Zero

| Derivation of Raspberry Pi Zero | KAmoRPi Zero 2Relay |
|---------------------------------|---------------------|
| GPIO22                          | REL1, OUT1          |
| GPIO5                           | REL2, OUT2          |



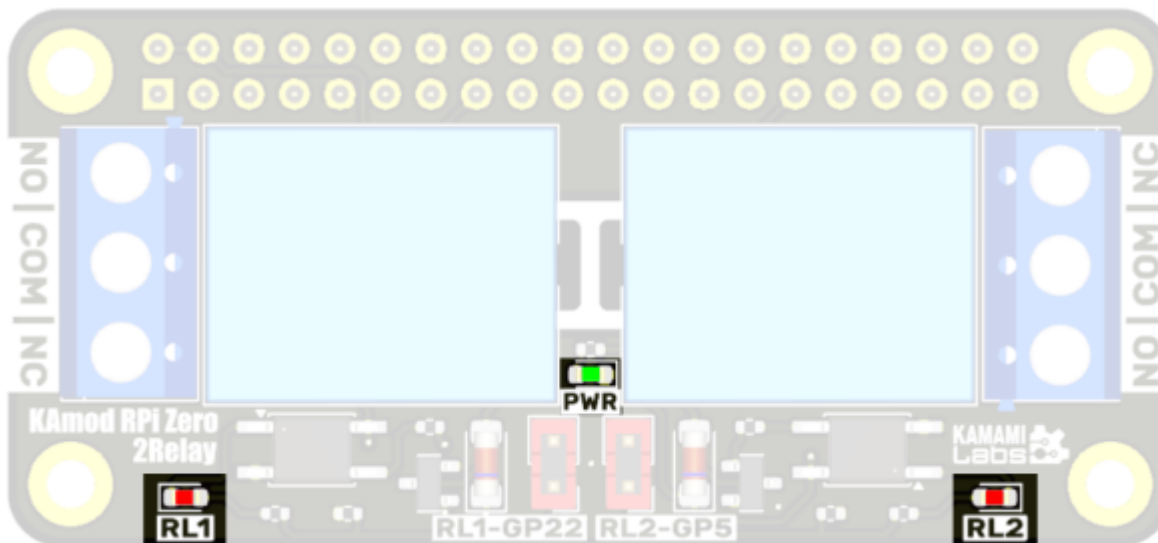
The GPIO line outputs are connected to the control circuit via a jumper, allowing you to disconnect the corresponding pins if necessary.



Jumpers connecting the Raspberry Pi pins to the relay activation circuits

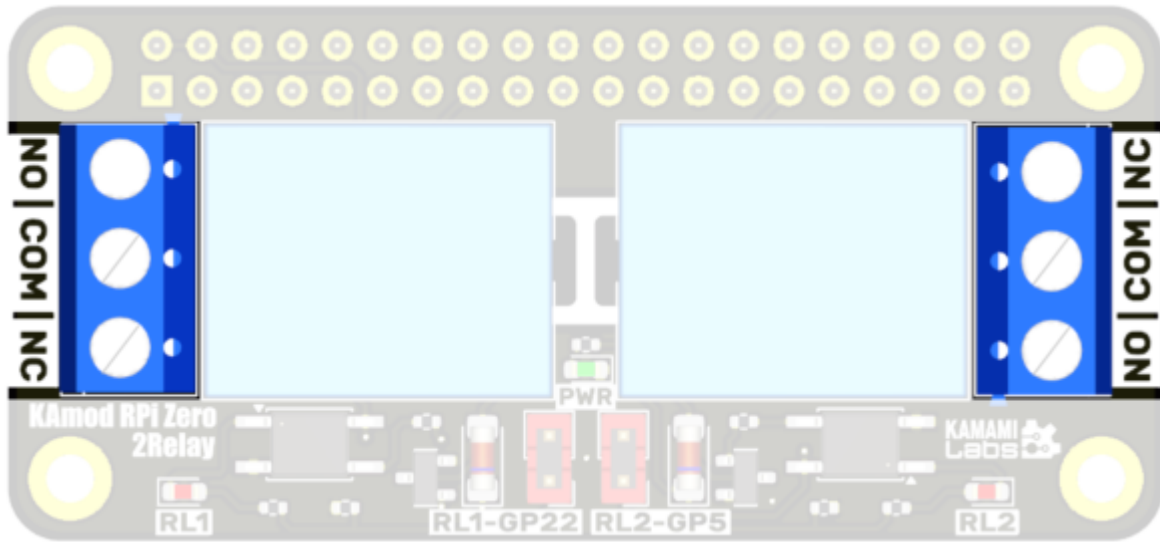
## Indicator LEDs

The module is equipped with a LED indicating the presence of the supply voltage ("PWR"), and two LEDs indicating the activation of the corresponding relay ("RL1") and ("RL2").



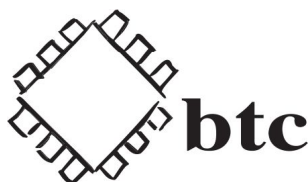
## Relay Outputs

The relay outputs are connected to screw terminals, allowing for the connection of both bare wires and wires with crimped ferrules. Both normally closed (NC) and normally open (NO) contacts are available.



## Links

- [CAD Model \(STEP\)](#)



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