

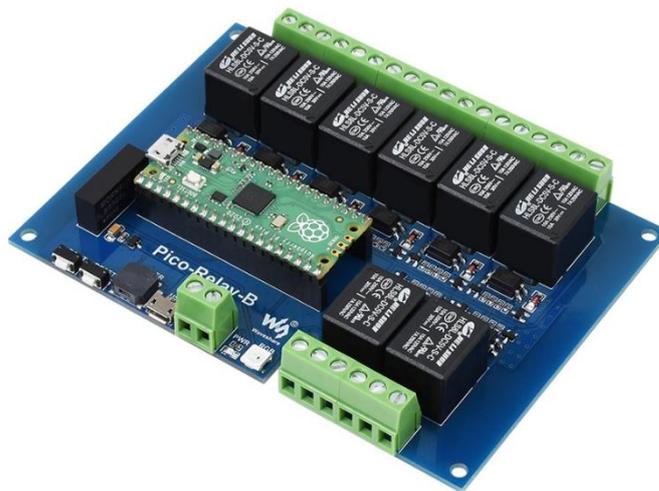
Raspberry Pi

# ***Industrial 8-Channel Relay Module for Raspberry Pi Pico, Multi Protection User Manual***



## **Raspberry Pi Pico Header Compatibility:**

Onboard Female Pin Header for Direct Attaching to Raspberry Pi Pico

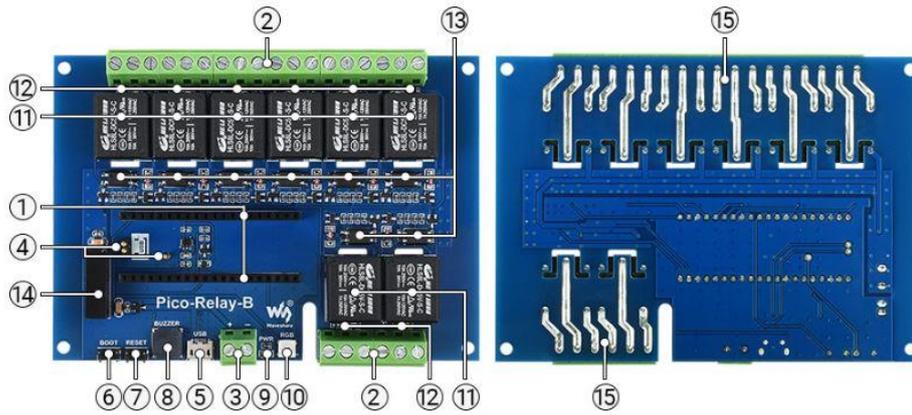


## **Enclosure Design:**

ABS Protection Enclosure with Rail-Mount Support, Easy to Install, Safe to Use



## What's on Board:



- |   |  |
|---|--|
| 1. Raspberry Pi Pico header   | 9. Power indicator   |
| 2. Relay screw terminal for connecting external devices                   | 10. WS2812 RGB LED, cool!  |
| 3. Power supply screw terminal the multi relays are connected in parallel | 11. 8-channel quality relays contact rating per channel: $\leq 10A$ 250V AC or $\leq 10A$ 30V DC                   |
| 4. Pogo pins  | 12. Relay operating indicator  |
| 5. USB communication port connected via pogo pins                         | 13. Photocoupler isolation prevent interference from external high-voltage circuit connected to the relay          |
| 6. BOOT key connected via pogo pins                                       | 14. Power supply isolation provides stable isolated voltage, needs no extra power supply for the isolated terminal |
| 7. Reset key Pico reset   | 15. Thickened tracks allows large current devices  |
| 8. Passive buzzer controllable sound frequency                            |  |

## Pinout Definition:

GP0	1	40	VBUS
GP1	2	39	VSYS
GND	3	38	GND
GP2	4	37	3V3_EN
GP3	5	36	3V3(OUT)
GP4	6	35	ADC_VREF
GP5	7	34	GP28
GND	8	33	GND
GP6	9	32	GP27
GP7	10	31	GP26
GP8	11	30	RUN
GP9	12	29	GP22
GND	13	28	GND
GP10	14	27	GP21
GP11	15	26	GP20
GP12	16	25	GP19
GP13	17	24	GP18
GND	18	23	GND
GP14	19	22	GP17
GP15	20	21	GP16

VSYS	Power supply	
GND	Ground	
GP6	BUZZER	Buzzer control
GP13	RGB	RGB LED control
GP14	CH8	CH8 relay control pin
GP15	CH7	CH7 relay control pin
GP16	CH6	CH6 relay control pin
GP17	CH5	CH5 relay control pin
GP18	CH4	CH4 relay control pin
GP19	CH3	CH3 relay control pin
GP20	CH2	CH2 relay control pin
GP21	CH1	CH1 relay control pin