IoT CONTROL RELAY

Safely control AC power from logic.

Build the IoT. Connect easily and safely. Control power from an Arduino, Raspberry Pi, Galileo or other microcontroller. The universal input connects to any circuit including 3.3V and 5 volt logic. Higher DC trigger voltages like 12V, 28V, or 48V PoE are also compatible. No driver is requried.

Simply connect two wires: One to ground and one to your control signal, such as a GPIO output bit on a microcontroller.

The relay can also be controlled by an AC input voltage of 12 to 120VAC. No changes or jumpers are required.

The internal circuitry is very power efficient, using approximately 1/5W unswitched and 1.1W activated.

Applications include:

- IoT products, DIY gadgets, OEM test equipment
- Home and building automation
- Green power and energy conservation
- Kiosks, vending machines and signage controls

Multiple AC loads of up to 12 Amps total may be controlled. Your imagination is the limit.

The IoT control relay is rugged and reliable, with US design and QC. It ships fully assembled and tested with a 1 year warranty. Single units are available on Amazon.

- A single logic input signal controls one high-current SPDT AC relay. This relay signal switches three AC outlets simultaneously: Two outlets are normally off. One outlet is normally on, and one outlet is unswitched.
- The universal control voltage 3-48VDC or 12-120VAC allows control from virtually any micro, PLC, or common power source.
- Self-contained design eliminates dangerous high voltage wiring and safety hazards.
- Safety features include:

  Optical isolation -- eliminates shock hazard
  Relay hysteresis -- prevents relay chatter
  De-bounce protection -- extends contact life
  LEDs -- verify input voltage and switch state

- A large 3600W MOV clamps surges for clean power.
- The durable SPDT control relay is rated at 30/40A, 400,000 operations at 12A resistive. At no load, the estimated lifetime is 5.3 million mechanical operations.
- A 12A thermal safety circuit breaker switch prevents overloads and adds supplemental protection.
- Recommended operating range: AC input 90-120VAC. Current 0-8A with 18AWG power cords, 0-12A with 16AWG cord. Use14AWG for 12A spans over 10 feet.
- Input connector: C-13/C14. Output: 4x NEMA 5-15.
- Included cord: 24" C-13 to 5-15 16AWG. Cords up to 50' length are in-stock in 14AWG.
- Indoor use only: -35F to 145F, 5-95% noncondensing.

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