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 micro-controller. The universal input connects to any circuit including 3.3V and 5 volt logic. No driver is requried.

Simply connect two wires. One to ground and one to your control signal, such as an output bit on a micro-controller.

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

- A single logic input signal controls one high-current SPDT AC relay. This relay signal switches four AC outlets in pairs: Two outlets are normally on. Two are normally off.

- The universal control voltage 3-48VDC or 12-120VAC allows control from virtually any micro or AC 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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