

Relay Output Module

ARD2-2219

- Can be used to automatically control appliances
- Applications include home automation & security

Description

This relay module is useful wherever it is necessary to control a high power or high voltage circuit with a low power circuit. It can be used to control appliances and has applications in home automation and security.

Specifications

Contact Rating	10A @ 240VAC, 10A @ 30VDC
Relay Type	SPDT
Operating Voltage	5VDC
Dimensions	40mm x 27mm x 18mm (LxWxH)
Colour	Black
Material	PCB

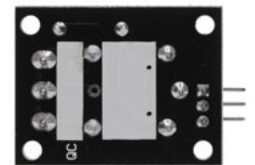
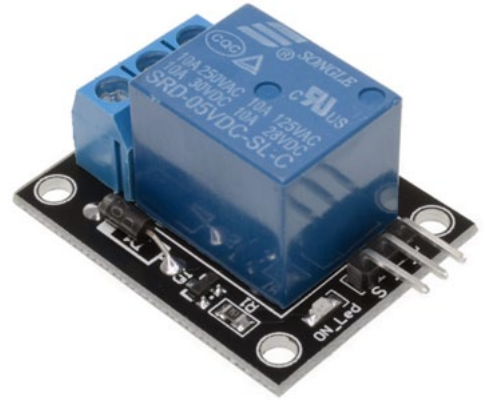
Pinout

Module	Arduino	Function
S	D10	Digital control input
+	5V	Power Supply
-	GND	Ground Connection

Test Code

```
//KY019 5V relay module
int relay = 10; // relay turns trigger signal - active high;
void setup ()
{
  pinMode (relay, OUTPUT); // Define port attribute is output;
}
void loop ()
{
  digitalWrite (relay, HIGH); // relay conduction;
  delay (1000);
  digitalWrite (relay, LOW); // relay switch is turned off;
  delay (1000);
}
```

The program notes in the conduction and disconnection refers to the way that we want that we are using the NO side. When S relay switches into high and hit the NO side, the switch is turned on, lighting up the connected LED. Otherwise, the switch hit the NC side, NO direction disconnect, LED light goes out. This test code will flash the LED on and off in intervals of 1 second.



WARNING: Mishandling or incorrect or improper use of relays could result in serious personal injury or DEATH, possible physical damage of the product, faulty operation or create serious/dangerous hazards.

Please make sure that you read and understand how your relay/relay module board works, the voltage and current it is rated for, and the risks involved in your project BEFORE you even attempt to start putting it together. Seek professional and qualified assistance BEFORE you undertake ANY high power projects. Do your research and seek advice BEFORE undertaking a project using a relay. Please check your connections and test them BEFORE turning the power on.

Wiltronics accepts no responsibility for your project, or the risk/damage/ fire/shock/injury/death/loss that it causes.

Please note: It is illegal in some countries to wire up a high power project without an electrician. Please check your country's rules/laws/ regulations before you undertake your project.