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MAKER FACTORY 2134131 4 Channel Relay Module Instructions

**MAKER FACTORY 2134131 4 Channel Relay
Module Instructions
BN 2134131
Version: 2**

Contents

Safety Instructions

 Do not touch connections carrying voltages above 25 V/AC or 35 V/DC.

- Be especially careful when dealing with voltages higher than 25 V alternating (AC) or 35 V direct voltage (DC)! Even at these voltages, it is possible to receive a fatal electric shock if you touch electrical conductors.

Delivery Content

- Product

Description

Use the product to switch components integrated into your circuits that require high power. The circuits are optoisolated.
The module features 4 high-current rated relays:

- l 250 V/AC / 10 A
- 125 V/AC / 10 A
- 30 V/DC / 10 A
- 28 V/DC / 10 A

Each relay comes with a status indicator light. The board has a power indicator light. The board can be directly controlled through a micro-controller, including

- Arduino®, Raspberry Pi®, 8051, AVR, PIC, DSP, ARM, MSP430, TTL logic

Pinout / Pin Map

Pin	Description
VCC	Power (5/12 V/DC)
GND	Ground
IN-1	Signal pin. Arduino® and control circuit 1
IN-2	Signal pin. Arduino® and control circuit 2.
IN-3	Signal pin. Arduino® and control circuit 3.
IN-4	Signal pin. Arduino® and control circuit 4.
COM	Common pin. Usually, directly connects to < GND > unless you intend to change the TTL mode((
NO	Normally Open Connection
NC	Normally Closed Connection
C	Middle pin: Common connection. Connects to load.

Note: There are no NO, NC, and C imprints on the product. Instead, observe the diagrams near the relay terminals.

Example Application

In this example, we will switch on and off two lights.

Each light comes with its own power supply as indicated in the diagram.

The left light connects to Relay 1 and the light on the right to Relay 4. In a real application, you may be switching a fridge, TV, or industrial appliance instead of battery-powered lights.
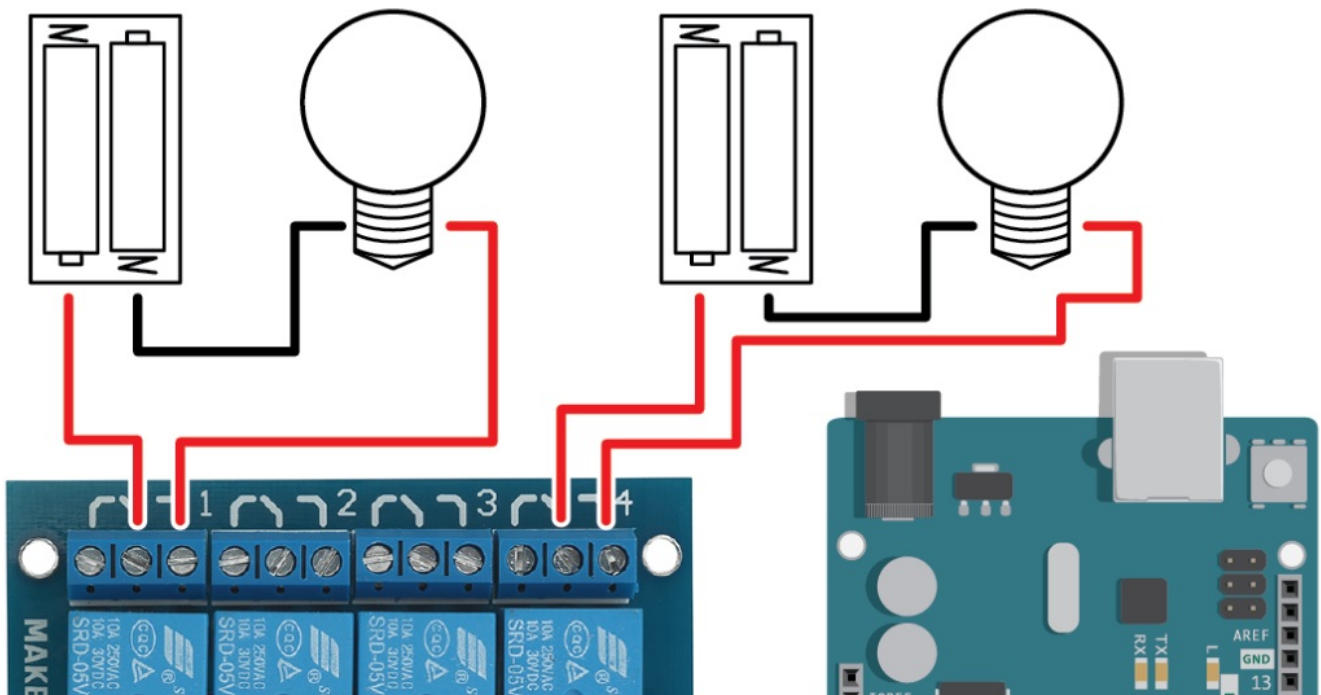
The instructions use the Arduino® platform to illustrate product use. You can also use an Arduino derivative or another platform that supports this type of product.

Connection

Control circuit:

Module	VCC	GND	IN1
Arduino®	5V	GND	~6

Power circuit:

Code
```
#define RELAY1 6
#define RELAY4 7
void setup( ) {
// Initialise the Arduino data pins for OUTPUT
pinMode (RELAY1, OUTPUT);
pinMode (RELAY4, OUTPUT); }
void loop() {
// Turns ON Relays 1
digitalWrite (RELAY1,LOW);
// Wait 2 seconds
delay (2000);
// Turns Relay Off
digitalWrite (RELAY1, HIGH);
// Turns ON Relays 4
digitalWrite (RELAY4, LOW);
// Wait 2 seconds
delay (2000);
// Turns Relay Off
digitalWrite (RELAY4, HIGH); }
```
Procedure

1. Prepare a sketch with the given code and upload it to your board.
2. Connect the module/component to the board as shown in the connection diagram or table.
3. The relays are switched according to the settings in your code.

Specifications

Platform/Microcontroller support	Arduino®, Raspberry Pi®, 8051, AVR, PIC,DSP, ARM, A
Switching Voltage/Current	250 V/AC / 10 A 125 V/AC / 10 A 30 V/DC / 10 A 28 V/D
Control circuit voltage	12 V/DC or 5 V/DC
Control current (Relay 1 – 4)	15 – 20 mA
Isolation	Opto-isolated
Dimensions (approx.)	77 x 55 x 20 mm
Weight (approx.)	60 g

Disposal

Electronic devices are recyclable waste and must not be disposed of in the household waste. At the end of its service life, dispose of the product in accordance with applicable regulatory guidelines. You thus fulfill your statutory obligations and contribute to the protection of the environment.

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Documents / Resources

MAKER FACTORY 2134131 4 Channel Relay Module [pdf] Instructions
2134131 4 Channel Relay Module, 2134131, 4 Channel Relay Module

References

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