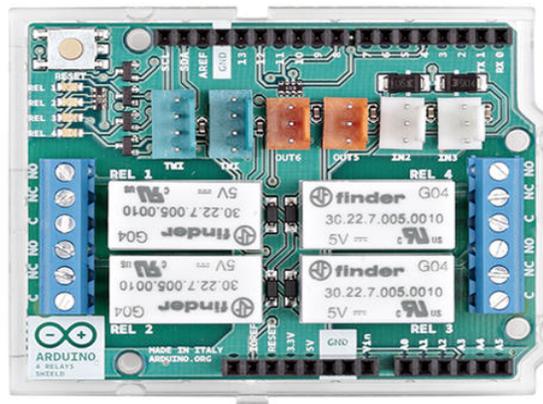




## Arduino 4 RELAYS SHIELD

The Arduino 4 Relays Shield allows your Arduino driving high power loads.



The Arduino 4 Relays Shield allows your Arduino driving high power loads that cannot be controlled directly by Arduino's digital pins. The Shield features four relays, each relay with 2 pole changeover contacts (NO and NC). Four LEDs indicate the on/off state of each relay.

### Power

The shield doesn't need external power: it will be provided by the base board, through the 5V and 3.3V pins of the Arduino board used as base.

### Input and Output

The relays are controlled by the following Arduino board pins:

- Relay 1 = Arduino pin 4
- Relay 2 = Arduino pin 7
- Relay 3 = Arduino pin 8
- Relay 4 = Arduino pin 12

The shield features several TinkerKit input/output and communication interfaces. Connecting TinkerKit modules can simplify the creation of a project or a prototype.

The on-board connectors are :

2 TinkerKit Inputs: IN2 and IN3 (in white), these connectors are routed to the Arduino A2 and A3 analog input pins.

2 TinkerKit Outputs: OUT5 and OUT6 (in orange), these connectors are routed to the Arduino PWM outputs on pins 5 and 6.

2 TinkerKit TWI: these connectors (4-pin in white) are routed on the Arduino TWI interface. Both connect to the same TWI interface to allow you to create a chain of TWI devices.

### Physical Characteristics

The maximum length and width of the 4 Relays Shield PCB are 2.7 and 2.1 inches respectively. Four screw holes allow the Shield to be attached to a surface or case. Note that the distance between digital pins 7 and 8 is 160 mil (0.16"), not an even multiple of the 100 mil spacing of the other pins.

### Compatible Boards

The shield is compatible with all the Arduino boards, 5V and also 3.3V standards.

The Arduino 4 Relays Shield is a solution for driving high power loads that cannot be controlled by Arduino's digital IOs, due to the current and voltage limits of the controller. The Shield features four relays, each relay provides 2 pole changeover contacts (NO and NC); in order to increase the current limit of each output the 2 changeover contacts have been put in parallel. Four LEDs indicate the on/off state of each relay.

#### FEATURES

Thinker Kit interface	2x TWI, 2x OUT, 2x IN
Interfaces with Arduino Board	DIO
Relays	4 (60W)

#### GENERAL

Operating Voltage	5 V
Current needs	140 mA (with all relays on, about 35 mA each)
PCB size	53 x 68.5 mm
Weight	0.044 Kg
Product Code	A000110