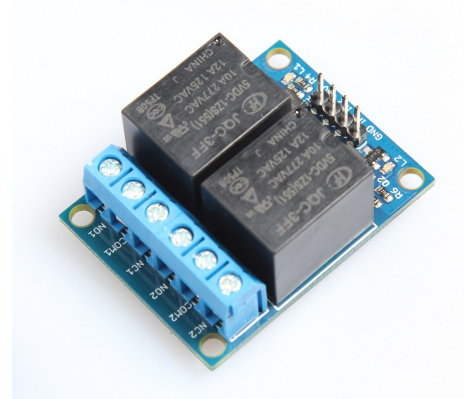Name: **Relay Module 2-Channel**
Code: **MR009-004.2**

This *Relay Module 2-Channel* is a module designed to allow you to control two relays in a very simple and intuitive manner. Being compatible with Arduino, the most immediate way to use it is to connect it to an Arduino board using flexible jumpers.

Exploiting the characteristics of the relays mounted on the module and through the use of two Arduino digital I/O pins, it is possible to control motors, inductive loads and other devices; this product is therefore fundamental in domotics projects or, more in general, in robotics projects.

The module is equipped with optocouplers on *IN1* and *IN2* lines in such a way that it ensures the galvanic insulation between the relay load and the control board which drives this module. Two LEDs indicate the ON and OFF state of the two channels.

CONNECTIONS

Pin	Function
IN1	TTL digital input
IN2	TTL digital input
GND	Ground
+5V	Power (+5V)
NO1	Normally open contact
COM1	Common contact

NC1	Normally closed contact
NO2	Normally open contact
COM2	Common contact
NC2	Normally closed contact

Tab.1 – Connections

CHARACTERISTICS

Pin	*Function*
Supply voltage	+5V
Supply current	144mA typ. (150mA max.)
Current on pin IN	14mA typ.
Rated load	7A 250VAC
Operating temperature	-30°C / +70°C
Operate time max.	10ms Max.
Release time max.	5ms Max.
Insulation resistance	100Mohm Min.
Mechanical Life Expectancy	10,000,000 operations
Electrical Life Expectancy	10,000 operations
Dimensions	1.7" x 1.3" (43.2 x 33.0 mm)
Weight	0.92oz (26.2g)

Tab.2 - Characteristics