Name: **Relay Module**
Code: **MR009-001.2**

This *Relay Module* is a module designed to allow you to control a single relay 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 relay mounted on the module and through the use of an Arduino digital I/O pin, 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 an optocoupler on the *IN* line in such a way that it ensures the galvanic insulation between the relay load and the control board which drives this module.

CONNECTIONS

Pin	Function
IN	TTL digital input
GND	Ground
+5V	Power (+5V)
NO	Normally open contact
COM	Common contact
NC	Normally closed contact

Tab.1 – Connections

CHARACTERISTICS

Pin	Function
Supply voltage	+5V
Supply current	72mA typ. (75mA 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	1.2" x 1.2"
Weight	0.5oz (14.2g)

Tab.2 - Characteristics