

RELAY MODULE RM-2 v1.1

DESCRIPTION

The RM-2 is usually used to increase a power switched by an output line and/or for electrical separation between output (e.g. signal output of an access controller) and load (e.g. door lock, siren etc.).

The RM-2 relay module provides two power relays along with transistor type triggering circuits. Each relay can be triggered either by low or high voltage level applied to adequate input. Using jumpers, installer can select the triggering methods independently for each relay. The triggering inputs of RM-2 are characterized by relatively high input resistance (app. 15k Ω) so the majority of the transistor type outputs (even a very weak 5mA open collector line) can successfully trigger the relay's coil. Each relay offers single, dry type, contact (COM/NO/NC - Form C) 1.5A rated. If needed the common contact (COM) of a relay can be internally (biased) connected to supply minus or plus alternatively it can be left unconnected (dry). Either NO-COM or NC-COM pairs of contacts are protected from spikes through over voltage elements (Metal Oxide Varistors – MOV). The use of MOVs significantly extends the live time of contacts and improve overall switching performance provided by the relays. The activation of each relay is indicated on relevant LED (red color) located on printed board.

INSTALLATION

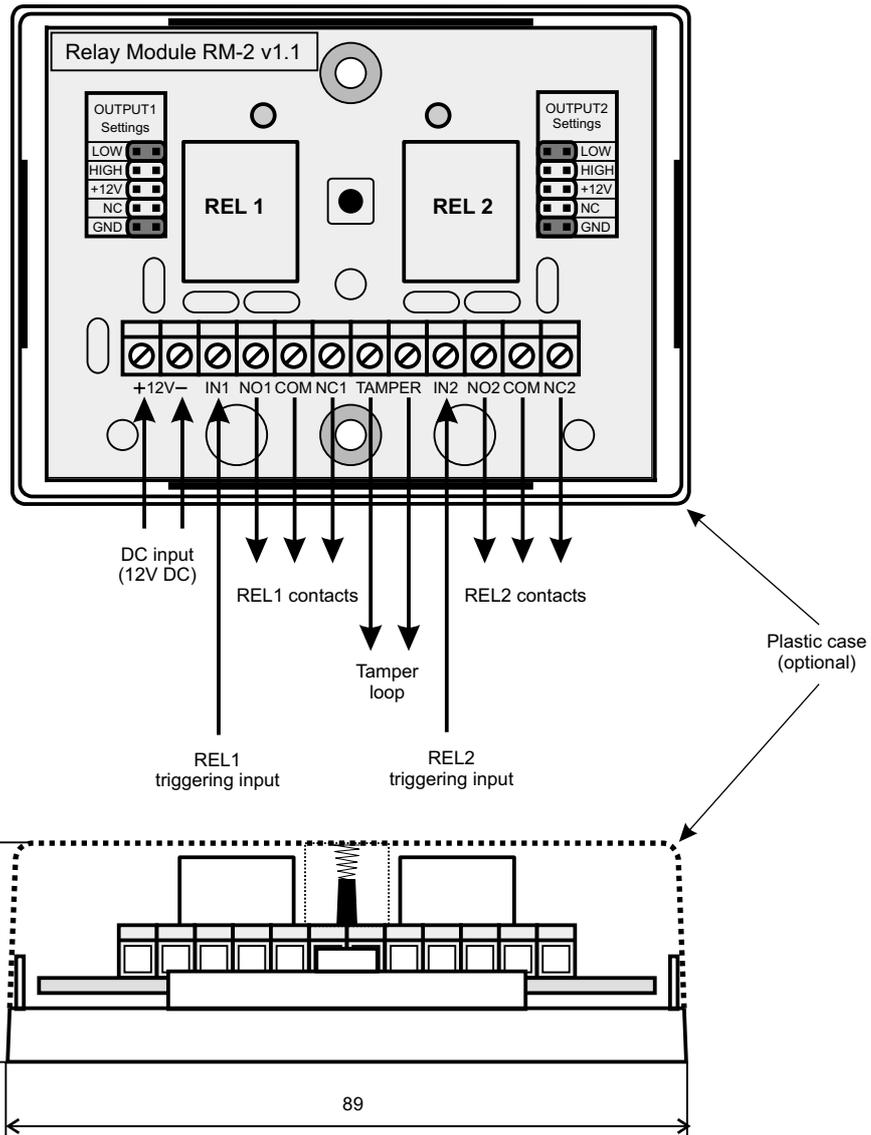
Locate module in adequate compartment or installation box, far from sources of heat and moisture. All electrical connections and jumper settings must be carried out prior to power up. Once wiring is complete, power up the device and perform testing. When module is installed in adequate housing which deliver sufficient protection against outdoor conditions it may be located in external locations (RM-2 offers -25/+60 °C operation).

Note: The maximum voltage switched by relay contacts must not exceed 28V AC/DC.

| TECHNICAL SPECIFICATION | |
|-------------------------|---------------------------------------|
| Supply input: | 10.0 ...16VDC |
| Current consumption : | ~40mA per each triggered relay @12VDC |
| Load : | 1.5A/28V AC/DC |
| Input resistance: | 15k Ω |
| Triggering level HIGH : | > 5V |
| Triggering level LOW: | < 4V |
| Temperature: | -25/+60 °C |
| Relative Humidity: | 10-95% (without condensation) |
| Dimensions : | 81 x 60 |
| Weight : | 46 g. |

| ORDERING CODES | |
|----------------|------------------------------|
| RM - 2 | Electronic module (board) |
| M2 - Box | Plastic case for RM-2 module |

RM-2 v1.1 Wiring and Setup



| Jumper settings (refer to both REL1 and REL2 outputs) | |
|--|--|
| LOW <input type="checkbox"/> HIGH <input type="checkbox"/> | LOW level voltage (supply minus) triggers relay |
| LOW <input type="checkbox"/> HIGH <input type="checkbox"/> | HIGH level voltage (supply minus) triggers relay |
| +12V <input type="checkbox"/> NC <input type="checkbox"/> GND <input type="checkbox"/> | COM contact shorted internally with supply plus |
| +12V <input type="checkbox"/> NC <input type="checkbox"/> GND <input type="checkbox"/> | COM contact shorted internally with supply minus |
| +12V <input type="checkbox"/> NC <input type="checkbox"/> GND <input type="checkbox"/> | Isolated COM contact (dry) |