



I-209

DIGITAL TIMER - CONTROLLER TILL 6 MONTHS



The I-209 module is a timer to control voltage a device. Specially recommended for renting apparatus, houses, games, etc...

It includes a led to indicate its state as well as connection terminals to make more easy its assembly.

TECHNICAL CHARACTERISTICS.

Voltage.	12 V. DC.
Minimum Consumption.	12.6 mA.
Maximum Consumption.	47.3 mA.
Operating timing.	1, 2, 3 or 6 Months.
Maximum Output intensity.	3 A.
Protection against polarity inversion	Yes.

OPERATING.

POWER SUPPLY. The I-209 circuit had to be supplied by a 12 VDC power supply correctly filtered. We recommended you the FE-2 power supply which has been developed to perfectly answer to the circuit needs. Install a fuse and a switch has it is indicated on the schedule. Both are necessary for the module's protection as well as for your own safety, as it is required by the "CE" regulations. Connect the positive of the power supply to the positive terminal indicated in the wiring map, then connect the negative of the power supply to the negative terminal indicated in the circuit. **Verify that the assembly is correct.**

MODULE'S USING. The I-209 is a timer with a long cycle to control the use of devices. Specillay indicated for renting apparatus, electronic devices, renting houses, games, etc.... The circuit will maintain the operating during the selected time and it stops the device when the time is finished. Then, the owner's "conformity" will be necessary to activate again the apparatus. Indeed, when the module is activated it allows the controlled device to be supplied during one of the four times previously selected. At the end of the selected timing, the I-209 module will disconnect the voltage and the controlled device could only be activated again for a similar timing till the I-209 is activated.

This operation only could be done inserting an "electronic key" supplied with the module. (See corresponding paragraphe).

HOW TO SELECT OPERATING TIME. The I-209 module allows four different times, composing the module's

HOW TO CONFIGURATE switches according to OPERATING TIME.

Switches



How to place switches to select a timing corresponding to 1 month.

Switches



How to place switches to select a timing corresponding to 2 months.

Switches



How to place switches to select a timing corresponding to 3 months.

Switches



How to place switches to select a timing corresponding to 6 months.

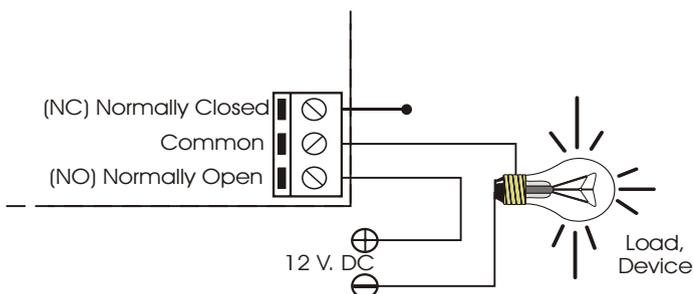


OPERATING.

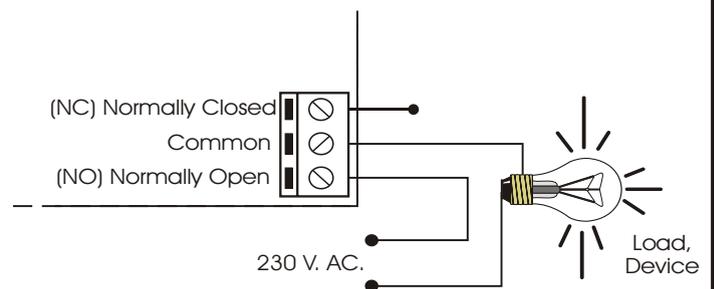
operating time. Thanks to the included switches (2 units) you could select among 1, 2, 3 or 6 months. Hereafter, you could see how to combine both switches to select a time.

OUTPUT CONNECTION. LOAD OR CONTROLLED APPARATUS. The I-209 output is controlled by a relay, and accept any device up to 3 A. The relay have three output terminals: The normally open quiescent (NO), the normally closed quiescent (NC) and the common. This mechanism operate like a switch with two terminals NC

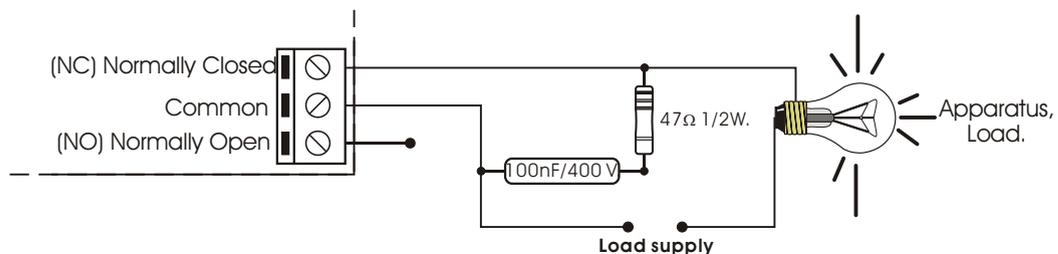
12 V. DC. CONNECTION



230 V. AC. CONNECTION



and Common to control the apparatus supply (allowing or stopping the voltage). For the inverse function you have to use the NO and Common. In the drawing hereafter, you could see a typical connection with a 12 V D.C and 230 V A.C devices.



INFORMATION ABOUT THE OUTPUT. During the operating mode and according to its load, it could happen a fluctuation or an incorrect working of the output. In such case, you have to install an anti-spark circuit between both contacts of the used relay, as it is indicated on the schedule.

OPERATING. Once output and voltage connections done, you could activate the switch to supply the moule.



← **Electronic Key**

The Led will light on or constantly intermittent. To activate the first time the module as well as to reactivate the module after timing, or to start from the beginning during a timing unfinished, you have to "charge" thanks to the supplied electronic key. This key have to be correctly safeguarded, because the warranty does not applied if you lose or bbreak it.

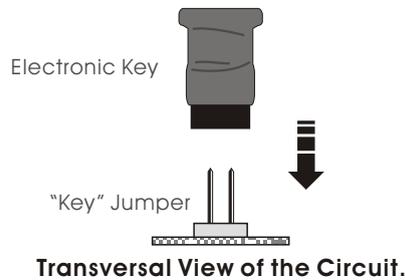
To "charge" the module. To "charge" the module, you have to insert the electronic key during more than 1



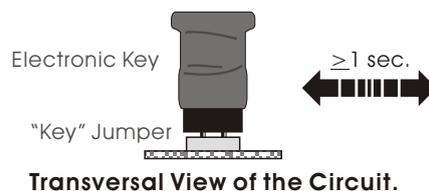
OPERATING.

How to "Charge" the module indicated as "Key" on the circuit.

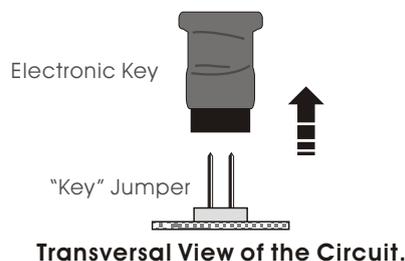
1st. Step. Introduce the electronic key on the key jumper.



2nd. Step. Maintain the electronic key on the Key Jumper during 1 sec. as minimum.



3rd. Step. Remove the electronic key from the Key Jumper.



When you insert the key into the key jumper, the status led will completely light on during 2 sec. then, the module immediately start from the beginning the pre-selected timing. Do not forget that each time you "charge" the module, it will start form the beginning the timing.

After the timing, the module will disconnect the output and wait you "charge" again it.

How to "Charge" the module.

DO NOT FORGET. The I-209 module doesn't count the time when it is not supplied, but it store into its memory the value till it is supplied again.

For this reason, you have to know that to adjust the module for a timing corresponding to 1 month for instance, the effective time that the module will maintain connected the output will correspond to the sum of partial times that the apparatus has been connected till a maximum of 1 month.

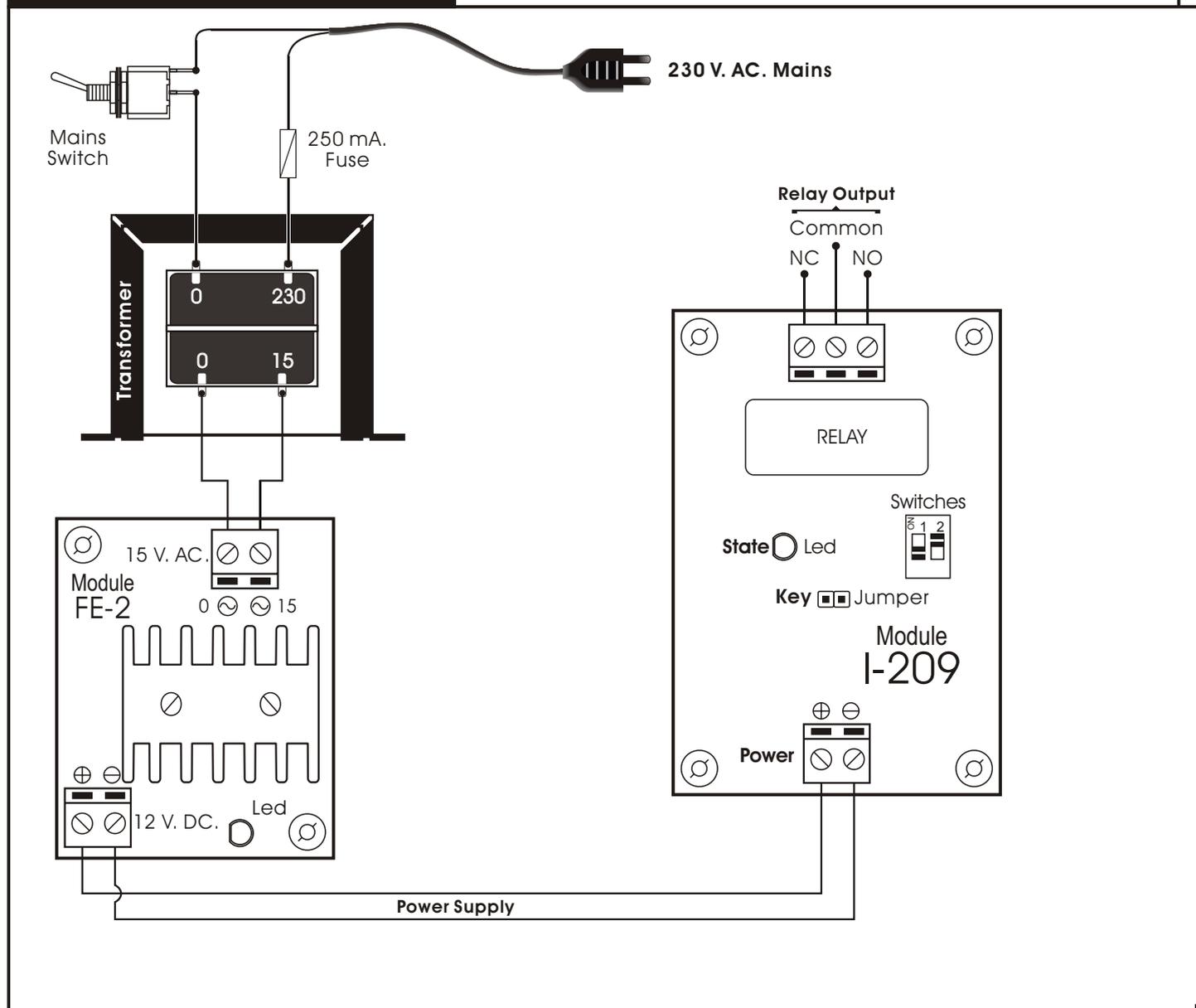


TIMERS

Ref. Full9907

I-209

GENERAL WIRING MAP.



TECHNICAL CONSULTATIONS.

If you have any doubt, you could contact your wholesaler or our Technical Department.
 - Via E-Mail, sat@cebek.com | by mail P.O Box 23455 - 08080 BARCELONA - SPAIN.

All the module's CEBEK have **3 years of total warranty** in the technical repairing, and spares from the date of buy.

**MORE 300
MODULES.**

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WARRANTY

**3
YEARS**