



## UNIVERSAL TIMER FROM 1 Sec. to 3 Min I-33



### TECNHICAL CHARACTERISTICS

|   |                  |
|---|------------------|
| Voltage.....                              | 12 V. D.C.       |
| Minimum Consumption....                   | 15 mA.           |
| Maximum Consumption....                   | 70 mA.           |
| Minimum Time.....                         | 1 Sec.           |
| Maximum Time.....                         | 3 Min.           |
| Maximum Load At The Relay..               | 5 A.             |
| Operating Indicator Led.....              | Yes.             |
| Protection Against Inversion Polarity.... | Yes.             |
| Sizes.....                                | 76 x 44 x 30 mm. |

The I-33 circuit allowto delay the output connexion. Then, the output will be activated during the operating time. It could be activated supplying voltage and/or closing its contacts using a push button. It includesinastprotection polarity inversion, an indicator operating led, connector to withdrawthe exterior potentiometer and terminals to connect it.

### OPERATING

**POWER SUPPLY :** The I-33 circuit had to be supplied by a 12 VDCpower supply well filtered. Do not use suppliers or rectifiers because they allowinterferences disturbing teh circuit operating. Then, we recommended you the FE-2 power supply which has been developped to perfectly answer to the circuit needs (or 12V batterie for mobile application). Connect the positive of the power supply to the positive terminal indicated in the wiring map, then connect also the negative of the power supply to the negative terminal indicated the circuit. **Verify** that the assembly has been correctly done

**TIMERING :** Following indications esdcribed in the General Wiring Map, install a push button at the indicated terminal. the required cable for your assembly is superior than 20 cm, you had to use a shielded cable. Pushin the button, module will be activated, delaying the operating. Then, operating and stop timering will start until the times determin times. Operating indicator led will light to indicate that output is activated.

Both times, operating and delay are independant and could be adjusted thanks to potentiometers inserted in Make an operating test placing potentiometrs at the minimum, tohueldn yaodujucste them according to your needs.

**START SUPPLYING VOLTAGE :** Module could be started closing its contacts using a push button (as deliver from our factory) or supplying voltage. To activated the I-33 module supplying voltage you had to make a short-circuit (together) two pins of the piece or jumper J3, indicated in General Wiring Map and Circuit. When this operation been done, each time you conect the power supply it will be activated, without pushingthe button.

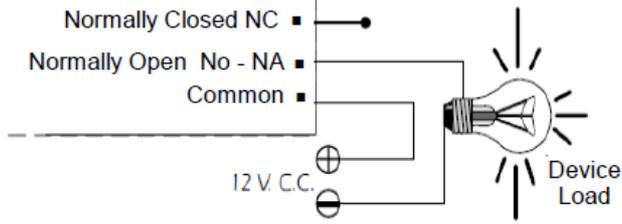
**OUTPUT. CONNECTIONOF THE LOAD :** The output Module (I-33) is controlled by a relay, allowing any load until 5 A. as maximumconsumption. The relay has 3 output terminals the normally open at quiescent (NA), the mormally closed at quiescent (NC) and the common. The operating of this mechanismis the same as a switch with two (terminals NA and common, if you wish that the output will be activated during the timer, or between the NCand common to obtain the reverse operating.

In the Output connection paragraph, you could appreciate the typical connection for a devicesDoCpearnadting at 12 to operate at 230 V. A.C.

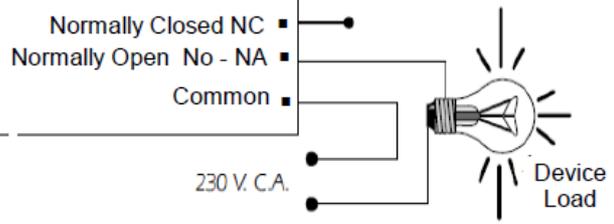
The installation is between the Common and NA, where the device or load that you wish to control will be activated during the operating time.

To obtain the inverse operating, substitute in the connection the NA by the NC.

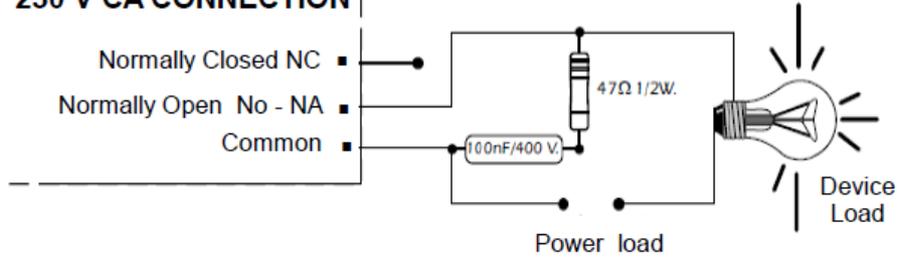
**12V DC CONNECTION**



**230V CA CONNECTION**



**230 V CA CONNECTION**



**GENERAL WIRING MAP**

