

TIMER I-1



TECHNICAL CHARACTERISTICS

Voltage.	12 V. DC.
Minimum Consumption.	15 mA.
Maximum Consumption.	60 mA.
Minimum Timing.	1 seconds.
Maximum Timing.	3 minutes.
Maximum Load.	5A.
Protection against Inversion Polarity, (P.I.P.).	Yes.
Sizes.	76 x 43 x 30 mm

The I-1 module is a standard timer. It will maintain activated the output till the end of the timing.
 The adjustment is done thanks to the potentiometer inserted in the PCB.
 It could be activated by supplying or closing its contacts thanks to a push button.
 It includes indicator LED and Jumper to extract the potentiometer at the exterior.

INSTALLATION

POWER SUPPLY. The I-1 circuit had to be supplied by a 12 VDC power supply correctly filtered. We recommend you to use the FE-2 power supply, which has been developed to perfectly answer to the circuit needs.

Install a fuse and a switch has itis 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 and the negative of the power supply tothe respective positive and negative terminals of the module, indicated in the wiring map. The distance between the power supply and the module has to be as short as possible. Verify that the assembly is correct.

OUTOUT CONNECTION. LOAD. The I-1 circuit had to be supplied by a 12 VDC power supply correctly filtered. We recommend you to use the FE-2power supply, which has been developed to perfectly answer to the circuit needs.

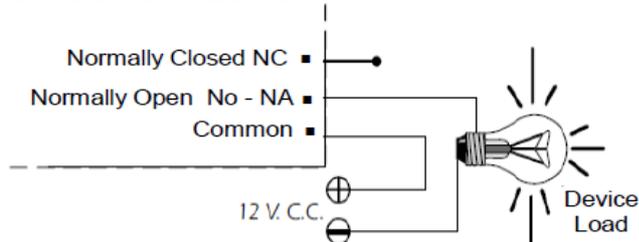
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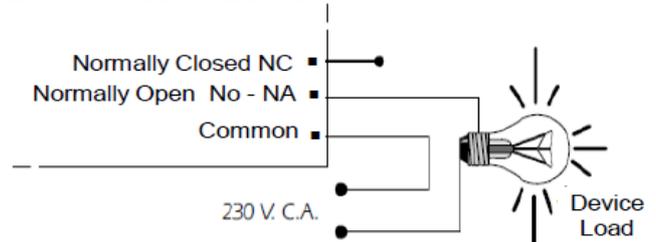
The I-1 output is controlled by a relay, and accepts any device up to 5 A. The relay is not a component supplying voltage but its function is limited to accept or deny the voltage passage like a standard switch. For this reason, you have to supply the load through this component.

Therelay has three output terminals: The normally open quiescent (NO), the normally closed quiescent (NC) and the common. Install it between the Common and the NOin accordance with the schedule "Output Connection. Load". For the inverse function you have to place the load between the NC and Common.

12V DC CONNECTION

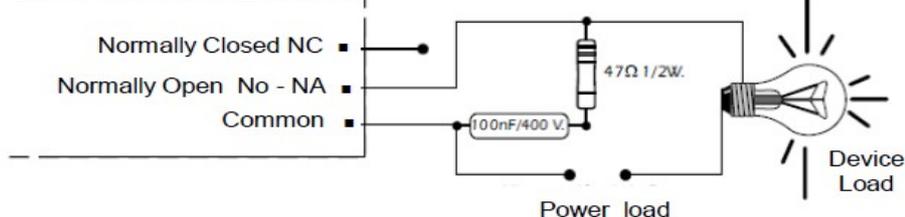


230V CA CONNECTION



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 (100 nF/400V Capacitor type X2 and 47 . ½ W resistor) betweenboth contacts of the used relay, as it is indicated on the drawing.

230 V CA CONNECTION



OPERATING MODE

The timing adjustment is done adjusting the potentiometer inserted on the PCB. At beginning you have to place the potentiometer at the minimum, after you could adjust it according to your wished time.

Once the time selected, the module I-1 could be activated according to two different modes: Activation by push button or supplying the module. To activate the module thanks to the push button, you have firstly to install a quality push button between indicated terminals. See the General Wiring Map. Each time you activate it, and if the previous timing is completely finished, the module will be activated, lighting the LED and exiting the relay during the selected time.

To activate the I-1 each time you supply the module, without using the push button, you have to connect both terminals of the JP1 jumper. Then, each time you supply the module, the timing will be automatically activated.

INSTALLATION OF THE EXTERNAL POTENTIOMETER. If you wish to remove the potentiometer already inserted on the PCB and install an external potentiometer, you have to firstly desold the resistor from the circuit. Then, install two connection wires from the JP2 Jumper till the new potentiometer. This one has to be a Linear 2M2 potentiometer.

GENERAL WIRING MAP

