



I-12



20 min. Pu to 2.5 Hours. CYCLIC TIMER

The I-12 circuit is a cyclic timer at 12 V. D.C. with relay output. The module will maintain activated the output according to an operating time and a quiescent time, both adjustable between 20 minutes and 2.5 hours. Operating-Quiescent cycle is permanently done until you disconnect the power supply. It includes Protection against Polarity Inversion and indicator timing led, connector to place an exterior potentiometer and terminals to connect it.

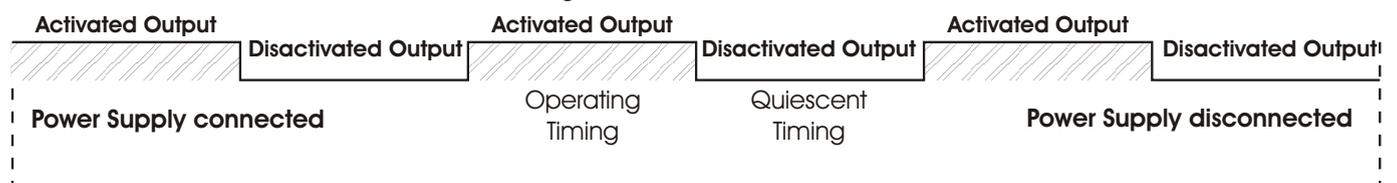
TECHNICAL CHARACTERISTICS.

Voltage.	12 V. D.C.
Minimum Consumption.	20 mA.
Maximum Consumption.	80 mA.
Minimum Timing.	20 minutes.
Maximum Timing.	2.5 hours.
Maximum Load at relay.	5 A.
Operating indicator Led.	Yes.
Sizes.	76 x 44 x 30 mm.

OPERATING.

MODULE'S SUPPLYING. The I-12 circuit had to be supplied by a 12 VDC power supply. Then, we recommended you the FE-2 power supply which has been developed to perfectly answer to the circuit needs. 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 in the circuit. **Verify** that the assembly has been correctly done.

OPERATING-QUIESCENT CYCLE. The I-12 circuit has two times. Operating time (when the relay will be connected) and quiescent time (when the relay will not be connected between two operating time). To select operating and quiescent times you have to adjust potentiometers inserted in the P.C.B. When the time is selected, press the push button to supply the module. The circuit I-12 will automatically connect the output during the previously indicated operating time and the led will light. When the operating time will be finished, led and output will be disconnected during the selected quiescent time. At the end of this quiescent time, the module I-12 will be activated once again.



OUTPUT. CONNECTION OF THE LOAD. The output Module (I-12) is controlled by a relay, allowing any load until 5 A. as maximum consumption. The relay has 3 output terminals the normally open at quiescent (NA), the normally closed at quiescent (NC) and the common. The operating of this mechanism is the same as a switch with two (2) terminals NA and common, if you wish that the output will be activated during the timer, or between the NC and the common to obtain the reverse operating. In the Output connection paragraph, you could appreciate the typical connection for a devices operating at 12 VDC and to operate at 230 VAC. 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.

EXTERIOR INSTALLATION OF THE POTENTIOMETER. If you wish to substitute potentiometers inserted in the P.C.B, you had to withdraw the soldering potentiometers. Then, and according to the drawing, connect cables between the element or jumpers indicated as "J1" & "J2" and exterior potentiometers. Potentiometers

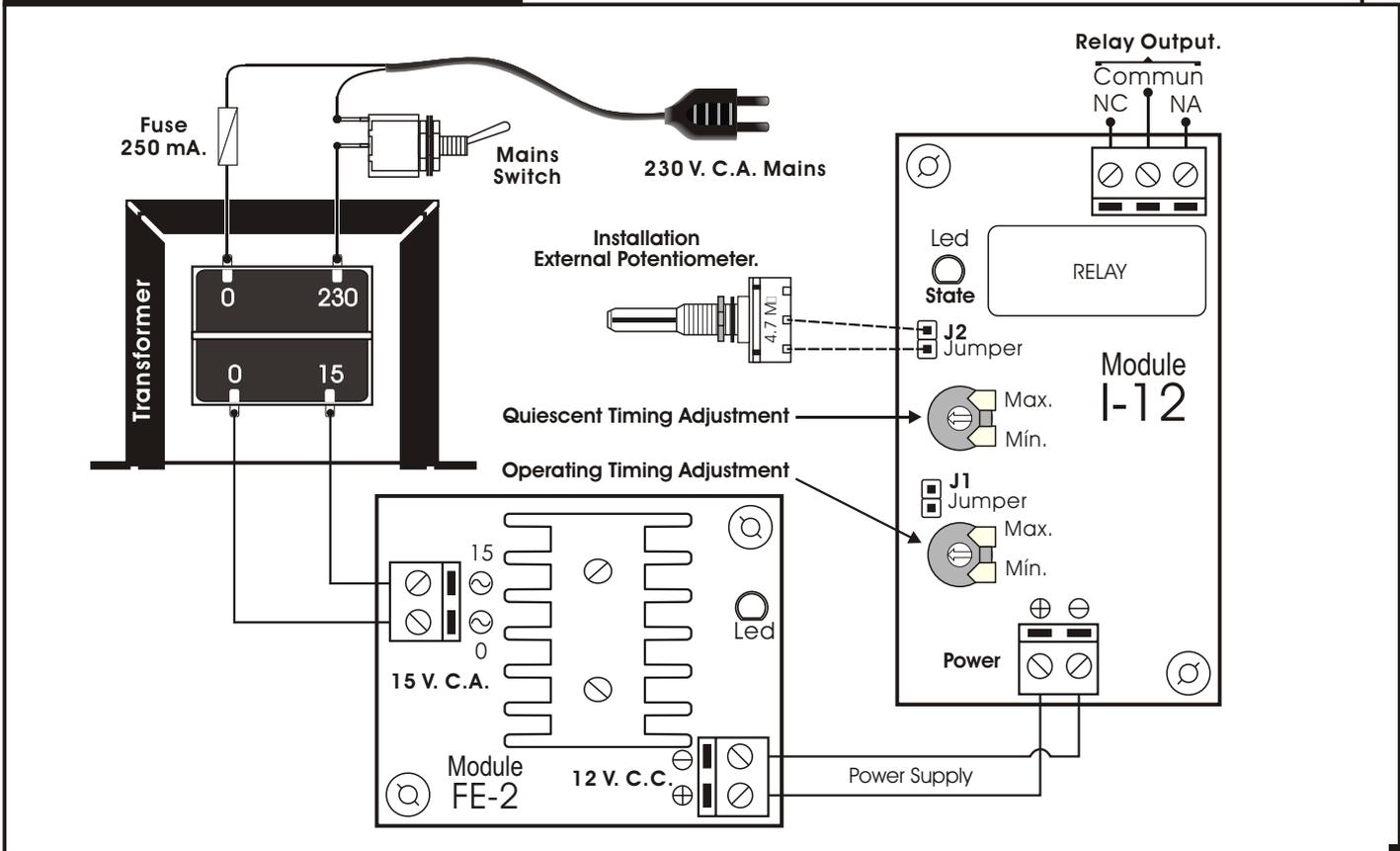


TIMERS

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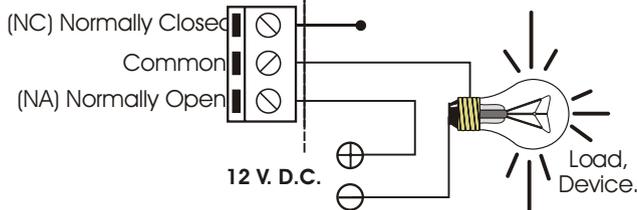
I-12

GENERAL WIRING MAP.

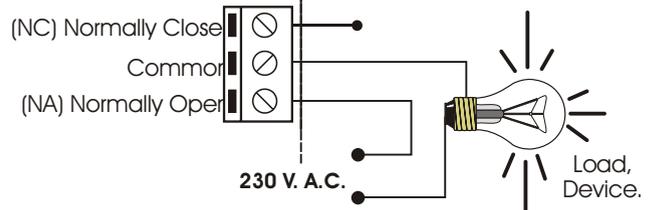


LOAD. OUTPUT CONNECTION.

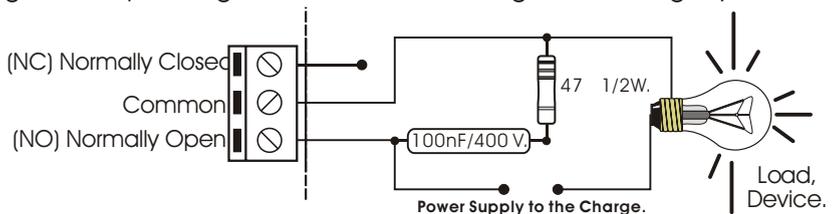
CONNECTION TO 12 V. D.C.



CONNECTION TO 230 V. A.C.



CONSIDERATION TO THE OUTPUT. LOAD. During to the operating the module according to be charge, you can happen the fluctuation or incorrect output fonctionament. This is wrong you have install the anti-spark (resistor & capacitor), between two contacts of the relay make's in the connection such as is to apper in the



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.

- **Keep the invoice of this module.** For any repair, the corresponding invoice had to be added. If the invoice is not presented together with this module, the module's warranty will be automatically cancelled.

All the module's CEBEK have **3 years of total warranty** in thechnical

**MORE 300
MODULES.**

CEBEK is trade make of FADISEL S.L. more than 300 module's are available in stock for any purpose **request our CATALOGUE**, or visit our Web. [Http://www.cebek.com](http://www.cebek.com)

WARRANTY

**3
YEARS**