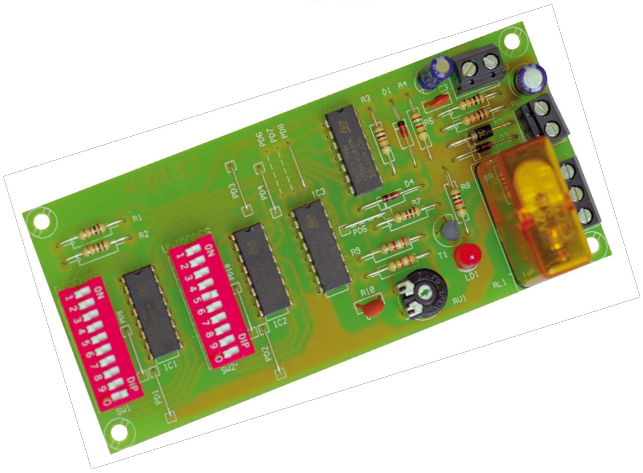


TIMER
I-24
0,1 UP TO 10 SEC.

CHARACTERISTICS

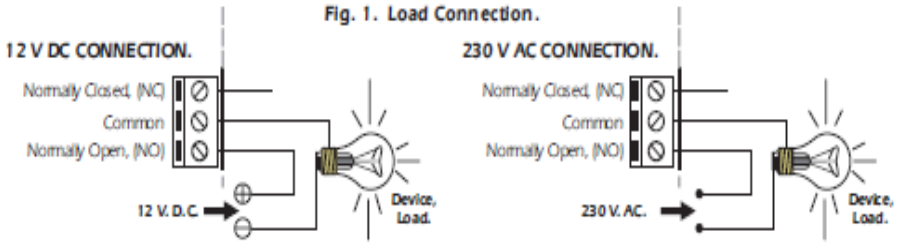
Voltage.....12V.D.C.
Minimum /MaximumConsumption.....15mA./60mA.
Maximum AdmissibleLoadbyrelay.....5A.

Minimum /MaximumTiming.....0,1sec./9,9sec.
Protection against Inversion Polarity,(P.I.P.).....Yes.
Sizes .....107x65x30 mm.

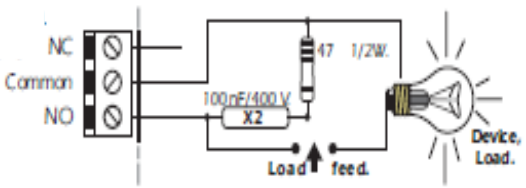
The I-24 module is an accurate timer with relay output and timing selection adjustable in decimal, thanks to two Dips Switches incorporated into the circuit.
It can be activated closing its contacts or supplying the module. It includes indicator Led .

INSTALLATION

POWER SUPPLY. The I-24 circuit had to be supplied b y a 12VDC power supply correctly filtered. Were commend you to usethe FE-104 power supply, which has been developed to perfectly answer to thecircuit needs.
Install a fuse anda 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 and the negative of the power supply to the 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.
OUTPUT CONNECTION. LOAD. The I-24 output is controlled by a relay, and accepts any device up to 5A.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.
The relay has three output terminals: The normally open quiescent (NO), the normally closed quiescent (NC) and the common. Install it between the Commonand the NO in accordance with the schedule “Output Connection. Load”. For the inverse function you have to place the load between the NC and Common



INFORMATION ABOUT THE OUTPUT. During the operating mode and according to its load, it could happen a fluctuation or an incorrect working o fthe output. In such case, you have to install an anti-spark circui tbetween both contacts of the used relay.
If the load connected to the relay is supplied by 230V, you have to use a 100nF/400V Capacitor and a 47W. ½ W resistor, as it is indicated on the drawing herewith.
If the load is supplied by 12 or 24V, you have to remove the resistor and to install between both contacts capacitor. Try with values between 47nF and 10nF, till the fluctuation disappears



ACTIVATION INPUT (STAR). The module can activated the timing closing its contact or being supplied. If you wish that the circuit will be automatically activated when you supply the module, you have to close the PWR-U Pjumper. At the opposite, if the jumper is open, The activation will be done by push button.
The length of the cable between push button and START input can't be superior to 60cm. If the distance is inferior to 25 cm , you can us parallel cable. If the distance is superior, you have to use shielded cable and to connect the braid to the terminal indicated with the ground symbol

OPERATING MODE

The time adjustment has to be done during the quiescent period o fthe circuit, and never during the operating period. To select the number for the wished time, Unit and Ten have to be separately recorded, thanks to the Dips inserted on the circuit.
From 0 up to 9,you have to put the corresponding Dips witch in ON position, and other switches have to remain in OFF position. Do never put twos witches from the same Dip in ON position, otherwise the module doesn'tc orrectly operate.
i.e 1.To adjust the module at 8sec. Firstly you have to place on Ten,thes witch “0” in ON position.Then, on Unit you have to put the Dip “8” in ON Position. The refore, the circuit will be configured to make operating cycles of 8 sec.The other Switches have to remain in OFF position.
i.e 2.To adjust a timing at 95 sec, you have to place thes witch “9” from Ten in ON andt hes witch “5” from Unit in ON.

GENERAL WIRING MAP.