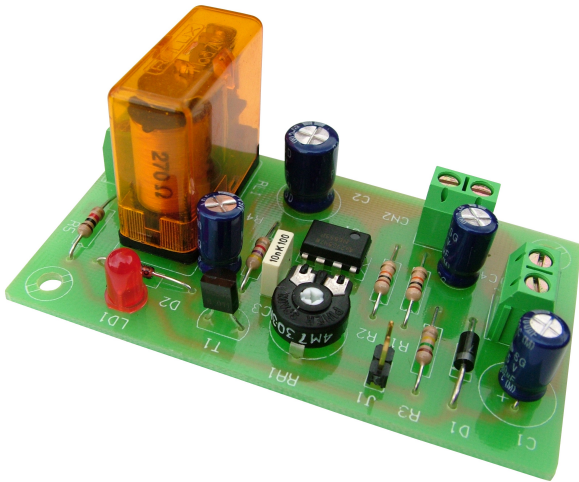




ADJUSTABLE TIMER I-31



TECHNICAL CHARACTERISTICS

Voltage	12 V. D.C.
Minimum Consumption	10 mA.
Maximum consumption	55 mA.
Minimum Time	2 Min.
Maximum Time	45 Min.
Maximum Load At The Relay	5 A.
Operating Indicator Led	Yes.
Protection Against Inversion Polarity	Yes

The I-31 circuit allows to be re-activated even during the operating time. The output is a relay offering an universal function for any loads. It is a timer from 2 min. up to 45min. adjustable thanks to the potentiometer inserted in the PCB. It includes a protection against polarity inversion, an indicator operating led, connector to withdraw the exterior

OPERATING

POWER SUPPLY. The I-31 circuit had to be supplied by a 12 VDC power supply well filtered. Do not use suppliers or rectifiers because they allow interference disturbing the circuit operating. Then, we recommended you the FE-2 power supply which has been developed to perfectly answer to the circuit needs (or 12V battery 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 in the circuit. **Verify** that the assembly has been correctly done.

TIMING. The time adjustment is made thanks to the potentiometer indicated in the General Wiring Map. Start the operating test placing the potentiometer at the minimum; then you could adjust it according to the wished time. To start the I-31 timering, install a push button at the indicated terminal in the General Wiring Map. You have to use a quality push button and if the required cable for your assembly is superior than 20 cm, you have to use a coaxial cable. Each time that you activate the push button, the timering will start activating the output and lighting on the operating indicator led. If you push again the button during the operating time, the module will start again from the beginning.

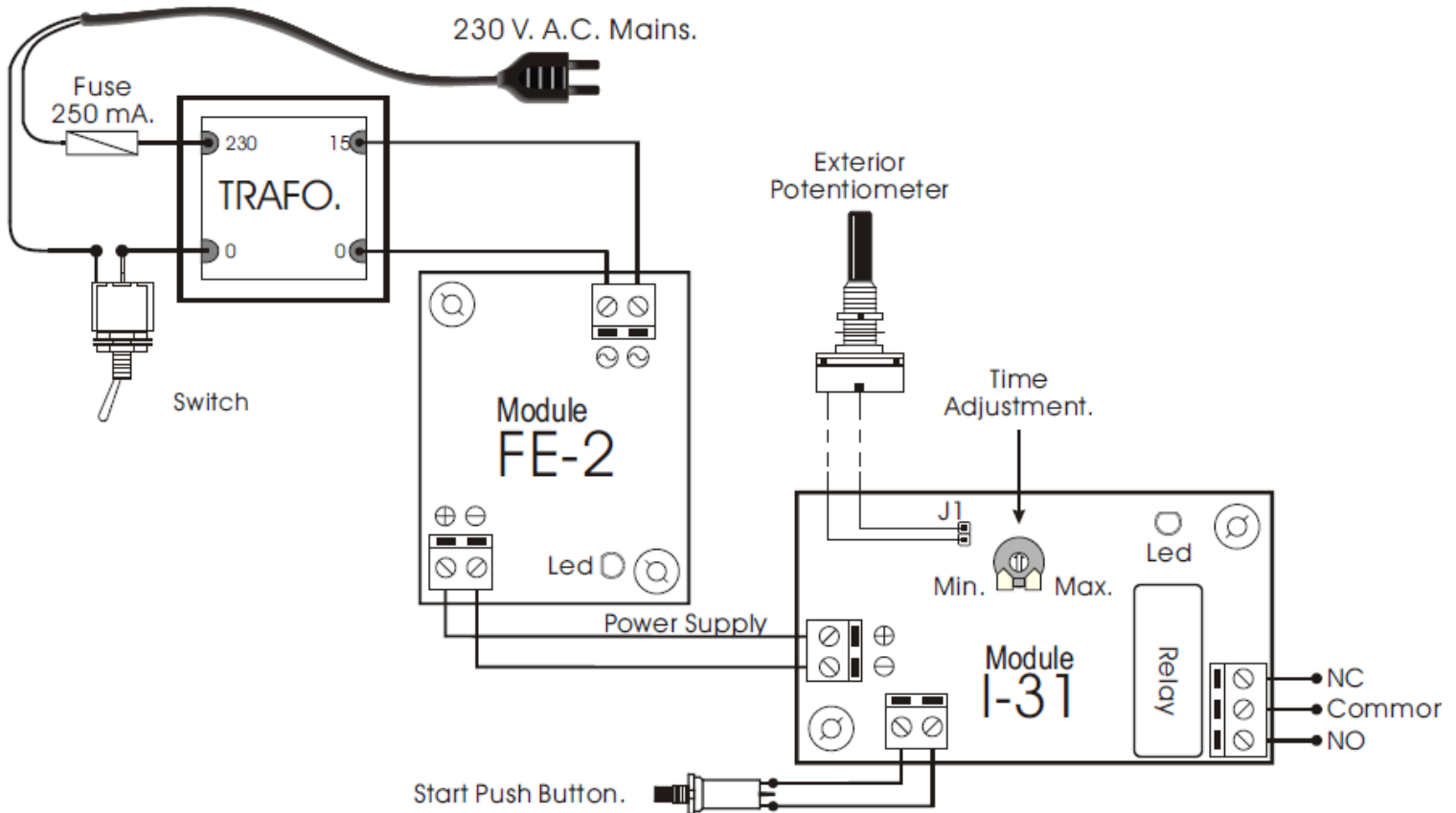
EXTERIOR INSTALLATION OF THE POTENTIOMETER. If you wish to withdraw or substitute the potentiometer inserted into the P.C.B by an exterior one, firstly you have to suppress the already soldered potentiometer. Then, and as it is indicated in the drawing, connect the cable between the element or jumper indicated as "J1" and exterior potentiometer. This potentiometer have to be lineal and offering 4M7.

OUTPUT. CONNECTION OF THE LOAD. The output Module (I-31) 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.

GENERAL WIRING MAP



OUTOUT. LOAD CONNECTION

