CEBEK®
ELECTRONIC CIRCUITS

I-136

DELAYING TIMER FROM 1 Sec. to 3 Min.

When the power supply is connected, the I-136 circuit will start a delay timing adjustable from 1 sec. up to 3 min. thanks to a potentiometer inserted in the PCB. After the adjusted delaying time, the output will be continuously activated up to the power supply disconnection.

The I-136 module could be activated supplying voltage and/or closing its contacts using a push button. It includes a protection against polarity inversion, an indicator operating led, connector to withdraw the exterior potentiometer and terminals to connect it.

TECHNICAL CHARACTERISTICS.

Voltage .... 230 V. A.C.
Medium Consumption .... 1 W.
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 .... 84 x 55 x 33 mm.

OPERATING.

POWER SUPPLY. The Circuit I-136 had to be supplied by 220 VAC. Using an adequate plug and a cable for mains, connect this last one to the input terminal 220 VAC. Install a fuse and a switch as it is indicated in General Wiring Map (see hereafter). Both are necessary to protect the module and for your own security, as it is indicated in EEC regulations. Then, verify that you have correctly connected the module.

Before to activate the switch supplying the module, please do the rest of connections specified hereafter. **Do not forget that in several part of the module there is voltage (220 VAC),** for this reason we suggest you to be careful.

OPERATING. To adjust the delaying time before the output's activation use the potentiometer inserted in the PCB. Start the operating test placing the potentiometer at the minimum (after you could place it according to your need). When the time is selected, connect the power supply of the I-136 module, then the module will be activated and the timing start. At the end of the delaying time, the led will light and the relay is activated connecting the output. To stop the relay activation you have to stop to supply the module.

OUTPUT. CONNECTION OF THE LOAD. The output Module (I-136) 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 or the NC and common, if you wish that the output will be activated during the delaying timer or after this operation.

In the Output connection paragraph, you could appreciate the typical connection for a devices operating at 12 VDC and to operate at 220 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.

START WITH A PUSH BUTTON. The I-136 module could be activated supplying voltage and/or closing its contacts using a push button (as delivered from our factory). To use the I-136 with a push button, you have to withdraw the **C3** capacitor indicated in the general wiring map and in the PCB.

Then, connect a quality push button to the terminals of the J2 jumper (also indicated in the general wiring map). If the wiring distance is superior than 20 cm., you have to use shielded cable.

Press the push button and the delaying time will start and after activating at the end the relay. To deactivate it you have to disconnect the power supply.
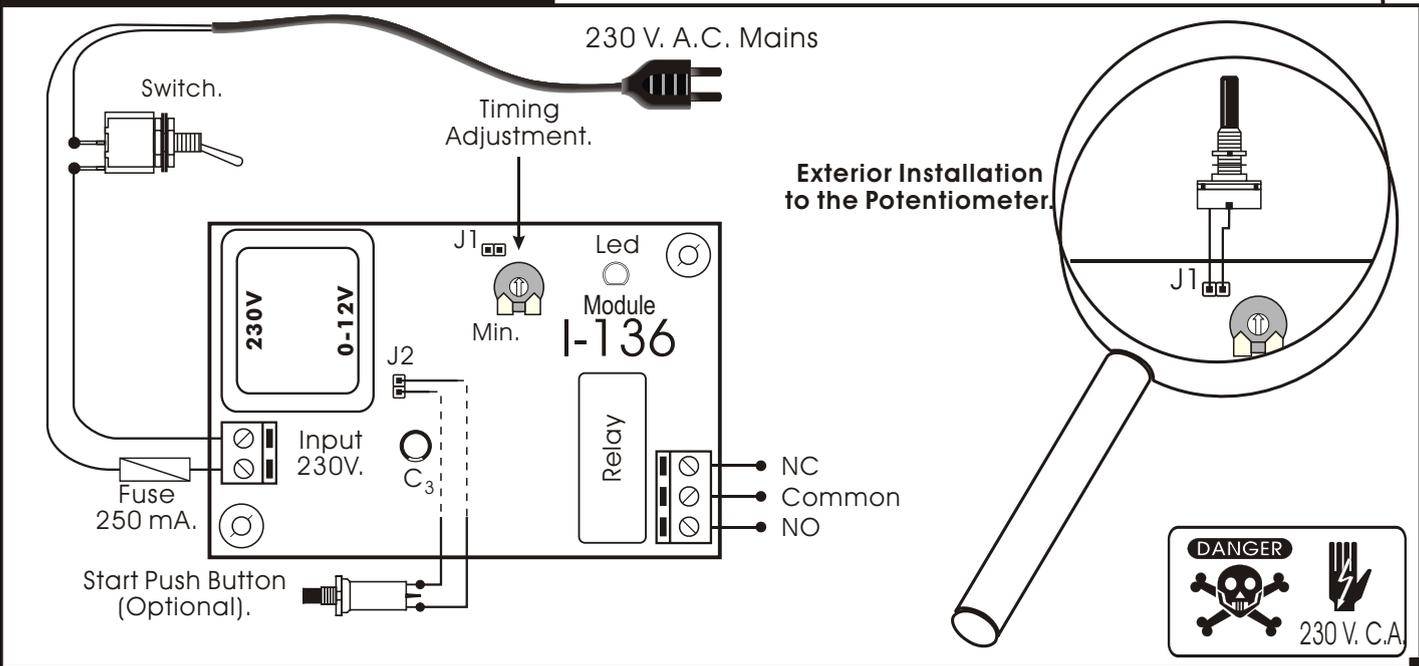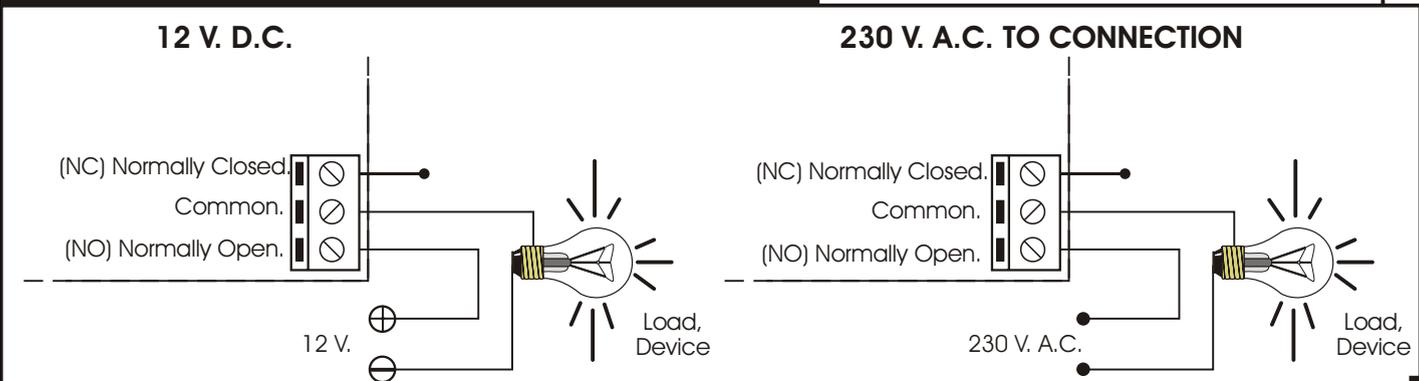
OPERATING.

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 had 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 new potentiometer. Both potentiometers have to be lineal and offering 2M2.

GENENRAL WIRING MAP.

230 V. A.C. Mains

Switch.

Timing Adjustment.

Exterior Installation to the Potentiometer.

J1

J1

Led

Min.

Module I-136

230V

0-12V

J2

Relay

Input 230V.

C₃

Fuse 250 mA.

NC
Common
NO

Start Push Button (Optional).

DANGER 230 V. C.A.

OUTPUT. CONNECTION OF THE LOAD.

12 V. D.C.

(NC) Normally Closed.
Common.
(NO) Normally Open.

12 V.

Load, Device

230 V. A.C. TO CONNECTION

(NC) Normally Closed.
Common.
(NO) Normally Open.

230 V. A.C.

Load, Device

TECHNICAL SUPPORT AND INFORMATION.

For any questions or more information:
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By E-Mail: cebek@sakma.es
Keep you invoice. For any repairing could you send this with module. Else, the module will lost the warranty.