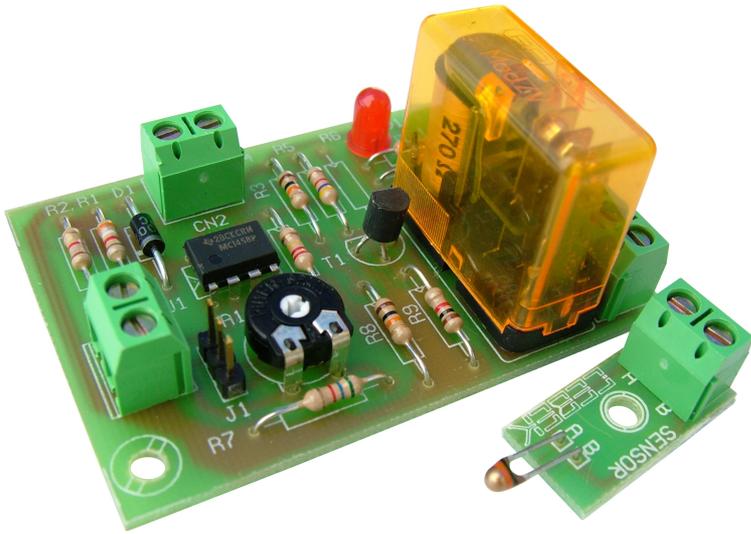




THERMOSTAT I-8



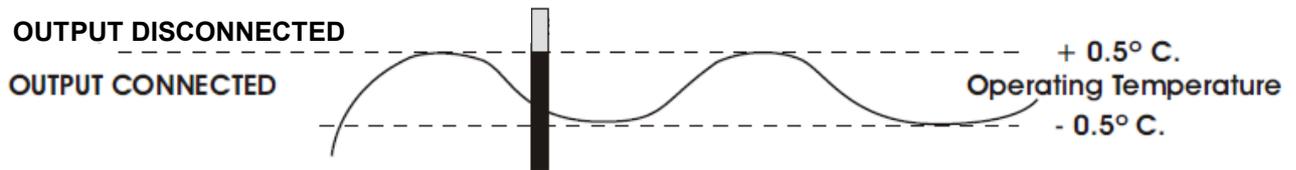
TECHNICAL CHARACTERISTICS

Voltage	12V. D.C.
Maximum Consumption	60mA.
Minimum Consumption	10mA.
Maximum Temperature	60°C.
Minimum Temperature	-10°C.
Maximum Load for the Relay	5A.
Protection Against Polarity Inversion	Yes.
Indicator led	Yes.
Sizes	65 x 45 x 30 mm.

The I-8 module is a thermostat operating at 12 VDC and a range of temperatures from 10 to 60 °C. The module will activate the output when the temperature is 0,5 °C inferior regarding the adjusted temperature and disconnecting it when it is superior than half degree. The output is a Relay allowing to connect any kind of loads. The temperature adjustment is made using a potentiometer inserted in the PCB. It also includes a protection against Polarity Inversion, indicator led, connector to substitute the external potentiometer and

POWER SUPPLY OF THE MODULE. The I-8 circuit has to be supplied by a 12 VDC power supply correctly filtered. Do not use suppliers or rectifiers disturbing the module's operating. Then, we recommend 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 the negative of the power supply to the negative terminal indicated in the circuit.

OPERATING. Seeing the General Wiring Map, connect the probe supplied with the module to the indicated terminal on the circuit. If the required cable length is superior than 100 cm, you have to use a shielded cable. Maximum length 200 cm. To adjust the temperature module, firstly you have to apply to the probe the maximum temperature that the module has to control, using a standard thermometer. When the temperature is stabilised, you could adjust the potentiometer till the relay's connection. Then the module will register this temperature as maximum operating temperature, being the minimum operating temperature the same but one degree less. Therefore, the module will be maintained on the operating temperature which will correspond to half degree less than the maximum temperature and to half degree more than the minimum temperature. For instance, if you adjust the circuit for 37°C as maximum temperature, the module will connect the output, each time the probe detects a temperature equal or superior, and will be maintained till the temperature decreases and the probe detects the minimum temperature or inferior 36°C. At this moment the output will be disconnected till the temperature increases again. As conclusion, we could say that the operating temperature is 36,5°C. The module also provides the reverse mode operation exposed. To enable this function desolder R6 resistance value of 4.7 K Ω and solder in the place designated as R5

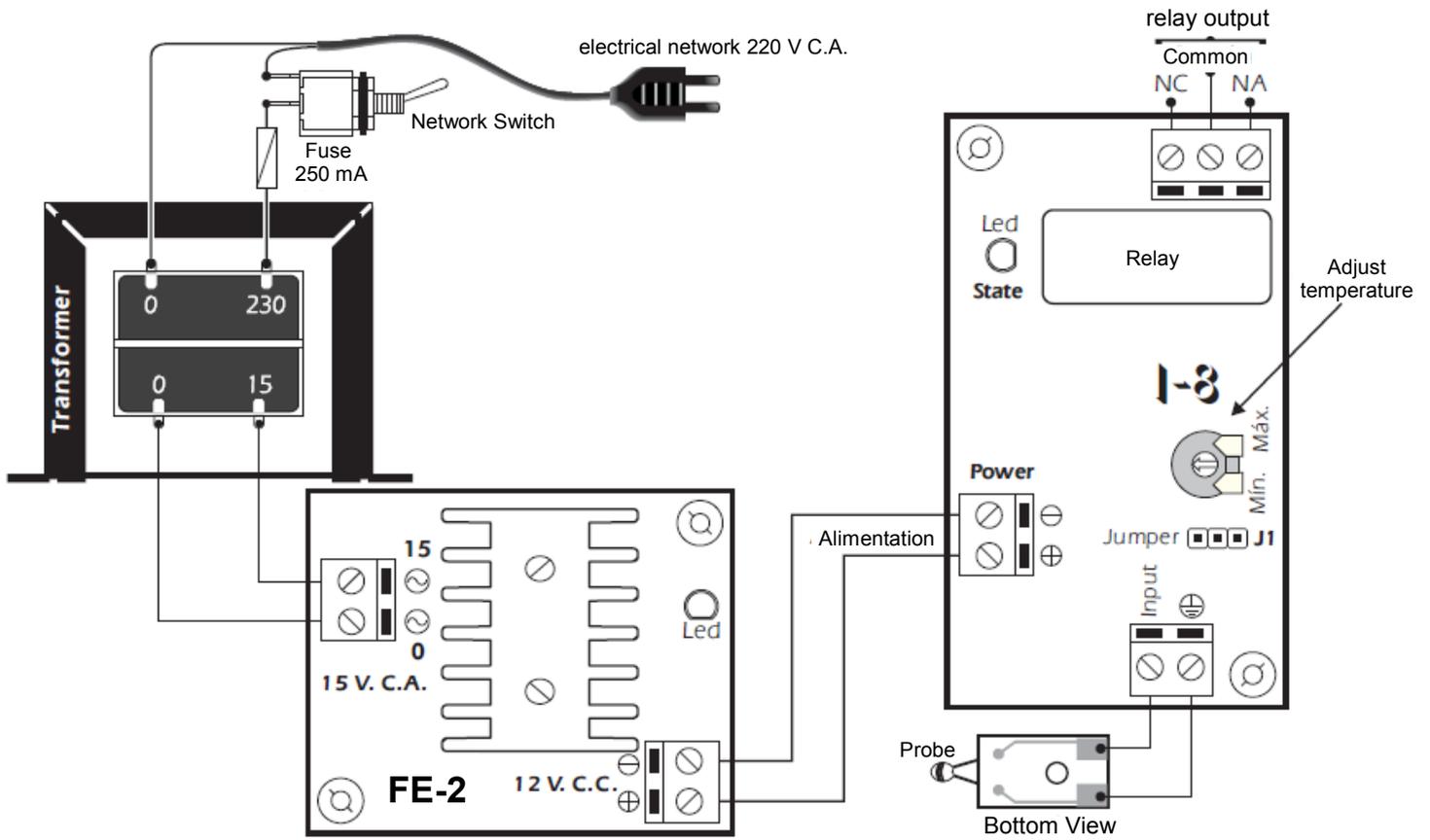


OUTPUT / CONNECTION OF THE LOAD. The I-8 output is by relay allowing to use any load inferior at 5A. As maximum consumption. The relay has 3 output terminals the normally open at quiescent (NA), the normally closed at quiescent (NC) and the common. The operating of this mechanism is the same as a switch with two (2) terminals NA and common, if you wish that the output will be activated when the detector does not receive light, 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 device 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

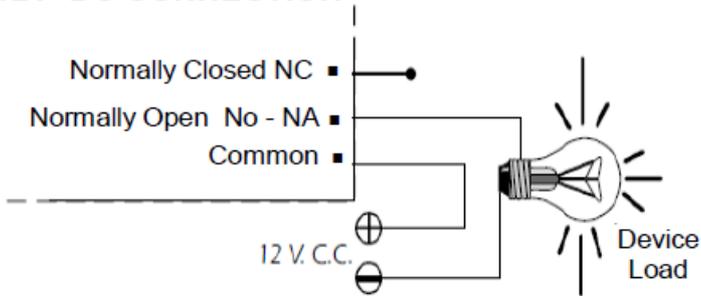
EXTERIOR INSTALLATION OF THE POTENTIOMETER: If you wish to withdraw or substitute the potentiometer inserted into the P.C.B by an exterior one, firstly you had to suppress the already soldered potentiometer. Then, and as it is indicated in the drawing, connect the cable between the element or jumper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

GENERAL WIRING MAP

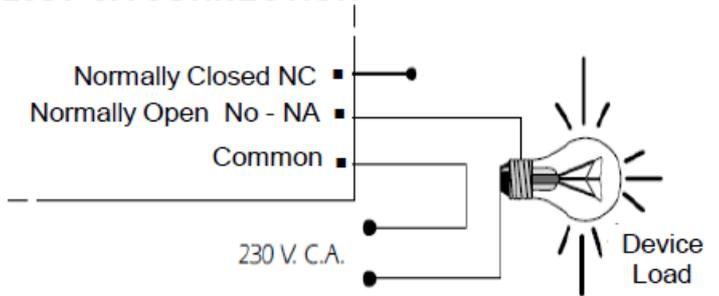


OUTPUT CONNECTION / LOAD

12V DC CONNECTION



230V CA CONNECTION



230 V CA CONNECTION

