



I-42

SUNSET RELAY

The I-42 module, thanks to an incorporated detector, will activated the output when he do not receive enough light. It is supplied by 12 V. D.C. and its operating sensitivity could be adjusted using a potentiometer inserted in the P.C.B. It has a relay output allowing any kind of load or device with 5A as maximum consumption. It includ protection against polarity inversion, operating indicator led, connector to withdraw the

TECHNICAL CHARACTERISTICS.

Voltage.....	12 V. D.C.
Minimum Consumption.....	5 mA.
Maximum Consumption.....	60 mA.
Maximum Load Accepted by the Relay.....	5 A.
Maximum Power Accepted by the Relay.....	1000 W.
Minimum Detection Level.....	25 Lux.
Maximum Detection Level.....	130 Lux.
Protection Against Polarity Inversion.....	Yes.
Operating Indicator Led.....	Yes.

OPERATING.

POWER SUPPLY. The I-42 circuit had to be supplied by a 12 VDC power supply correctly filtered. Do not use suppliers or rectifiers disturbing the module's operating. Then, we recommended you the FE-2 power supply which has been developped 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.

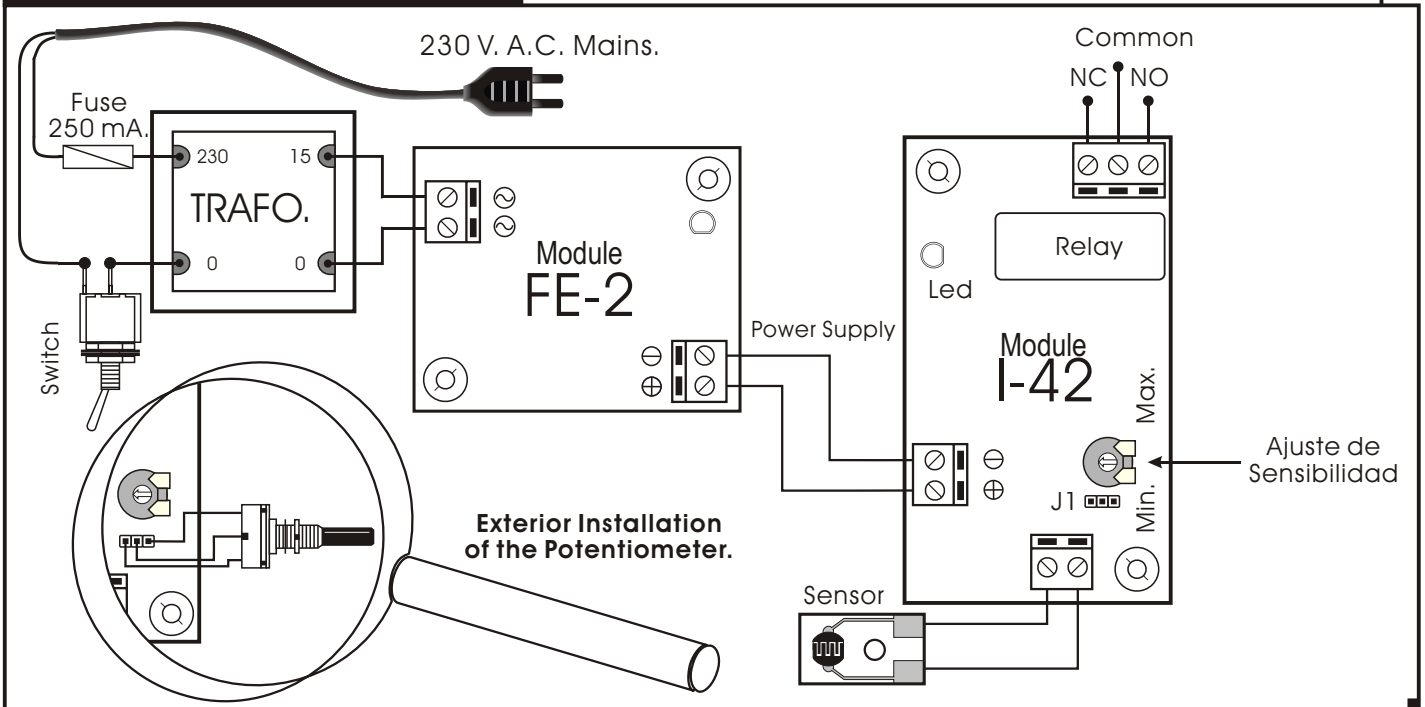
OPERATING. Following indications mentioned in the Genral Wiring Map, install the probe to the reserved terminal. If the assembly need cable superior than 30 cm, you had to use shielded cable. When all connexion are done, supply the module. Therefor if you manipulate the detector, you could verify that when the detector do not receive light it will activate the module (led lighting and output activate). The I-42 circuit offer the possibility to adapt the module's sensitivity acording to the received light. To determinate this sensitivity you had to adjust the potentiometer. Placing it at the minimum the circuit will lose sensitivity and need more darkness to be activated. If you place the potentiometer at the maximum, the module will earn sensitivity and it need less darkness to be activated. If you had to place the I-42 module at the exterior (bad weather) you had to fit the module into a watherproof box to protect module and detector but allowing it to detect. The I-42 module allow the possibility to use to be used in inverted mode. To obtain this function you had to desold the R5 resistor (4K7) indicated in the circuit and sold it in the place indicated as R6.

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 supress 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. Both potentiometers have to be lineal and offering 22 KOhms (Cable had to be inferior than 30 cm).

OUTPUT. CONNECTION OF THE LOAD. The output Module (I-42) 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 when the detector do not receive light, or between the NC and the common to obtain the reverse operating. In the Output connection paragraph, you could apreciate 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.

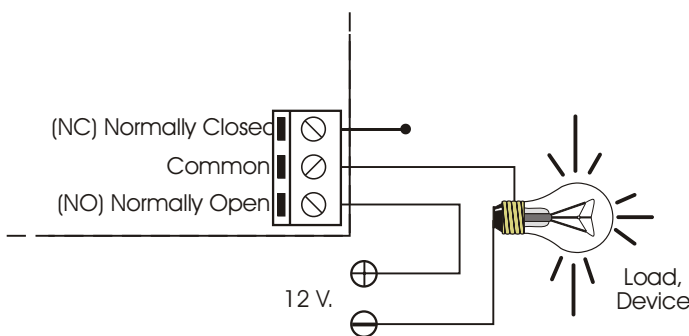


GENERAL WIRING MAP.

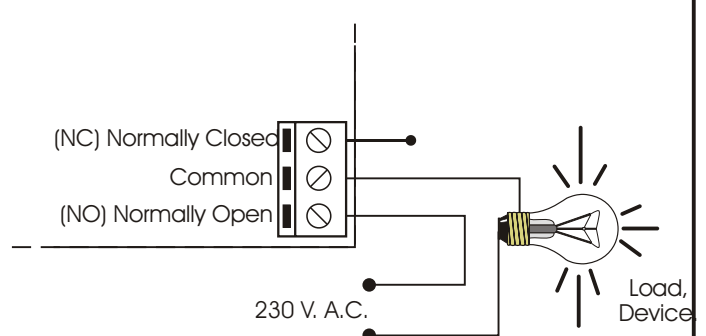


OUTPUT. LOAD CONNECTION.

12 V. D.C. TO CONNECTION



230 V. A.C. TO CONNECTION



TECHNICAL SUPPORT AND INFORMATION.

For any questions or more information:

By Fax. (24h.) +34.3. 432.29.95

By Mail: C/ Quetzal, 17-21, Entlo. 2º (08014) BARCELONA - SPAIN.

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.

All the module's CEBEK have **3 years of total warranty** in the technical repairing, and spares from the date of buy.

WARRANTY

3 YEARS

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.sakma.com/CEBEK](http://www.sakma.com/CEBEK)