



I-6

LIQUIDS LEVEL DETECTOR.

The I-6 is a liquids level detector allowing to activate the output when the included probe is in contact with the water. You could adjust the operating sensitivity. It includes a protection against polarity inversion, operating led indicator, connector to install an exterior potentiometer as well as connection terminals.

TECHNICAL CHARACTERISTICS.

Voltage.	12 V. DC.
Minimum Consumpion.	5 mA.
Maximum Consumpion.	60 mA.
Max.power to the relay.	1.200 W.
Max. Load . Relay output.	5 A.
Protection against polarity inversion.	Yes.
Sizes.	65 x 45 x 30 mm.

OPERATING.

POWER SUPPLY. The I-06 circuit had to be supplied by a 12 VDC power supply correctly filtered. We recommended you the FE-2 power supply which has been developed to perfectly answer to the circuit needs. Install a fuse and a 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 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. **Verify that the assembly is correct.**

OPERATING. Seeing the “General Wiring Map”, you have to connect the supplied probe with the module to the indicated terminal. If the cable is longer than 30 cm, you have to use shielded cable connecting the shield to the ground terminal. To avoid to have a wrong operating mode, the maximum length between probe and module have to be 150 cm.

Once these operations done, supply the module. Then, the module will immediately activate the output if you submerge the probe or if you short-circuit both plates composing the probe. The output will be maintained activate if the probe is detecting liquid. The led will be used to indicate the operating mode.

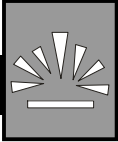
The I-6 had been designed to offer the possibility to adjust its sensitivity according to level of the liquid contact to activate the output. To adjust the sensitivity you have to use the potentiometer inserted on the PCB. Placing the cursor at the minimum, the module will lose sensitivity and require a higher conductivity from detected liquid to activate the output. Placing the cursor at the maximum, the module will win sensitivity and require a lower conductivity.

To install the I-6 at the outside, you have to fit it into a waterproof enclosure.

The module could also be used on inverted mode that previously explained. To use this function, you have to desold the R6 resistor with a value of 4.7 K Ω and sold it on the place indicated as R5.

INSTALLATION OF THE EXTERNAL POTENTIOMETER. If you wish to remove the variable resistor inserted on the PCB and install an external potentiometer, you have to firstly desold the resistor from the circuit. Then, and as it is indicated on the schedule, you have to connect terminals of the new potentiometer to the JP1 jumper and verifying that the cursor is installed on the central terminal. This potentiometer has to be 22 K Ω .

OUTPUT CONNECTION. The I-06 output is controlled by a relay, and accept any device up to 5 A. The relay have three output terminals: The normally open quiescent (NO), the normally closed quiescent (NC) and the common. This mechanism operate like a switch with two terminals NO and Common. For the inverse function you have to use the NC and Common. In the drawing hereafter, you could see a typical connection with a 12 V D.C and 230 V A.C devices.

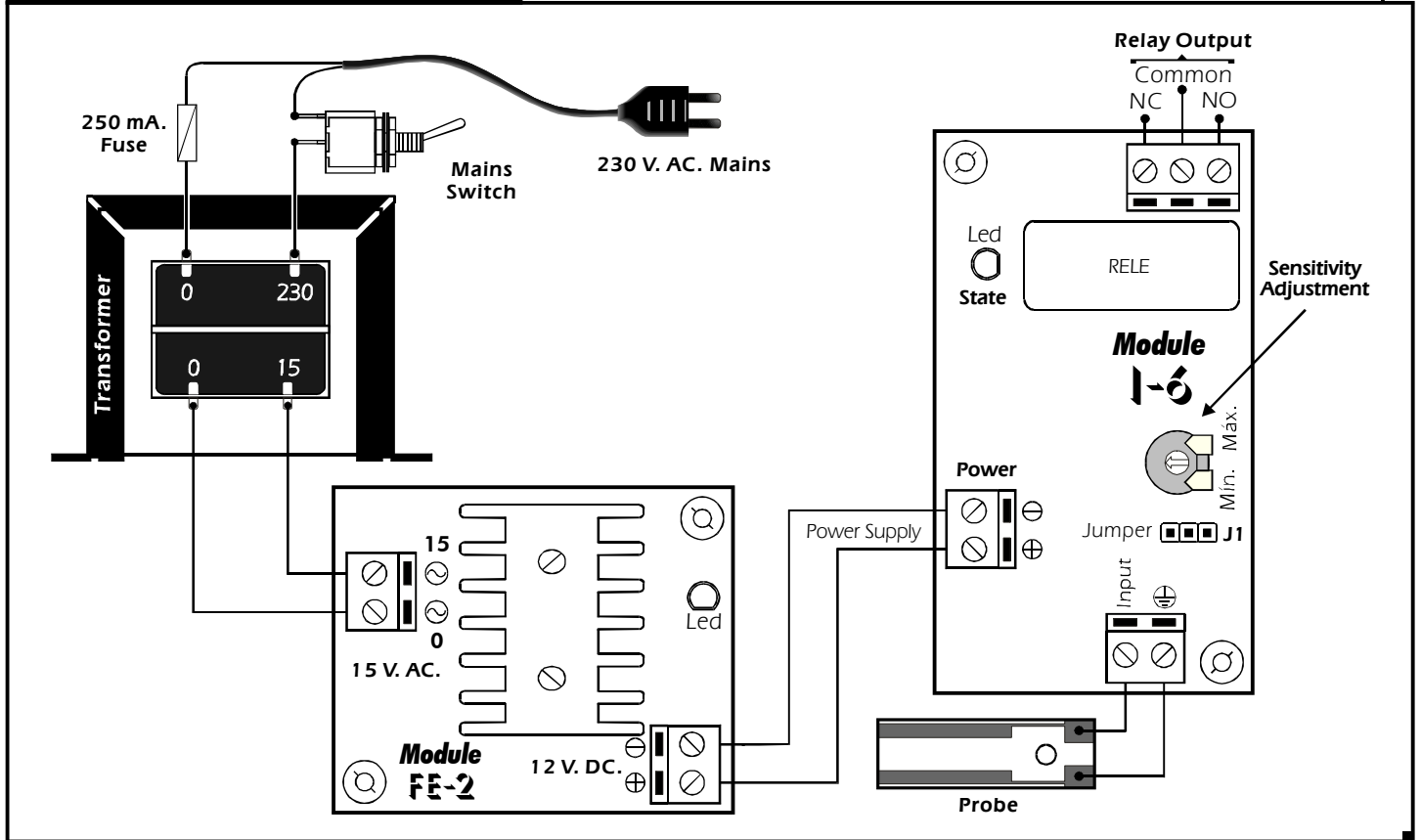


WATER & LIGHT DETECTORS.

Ref. Full9907

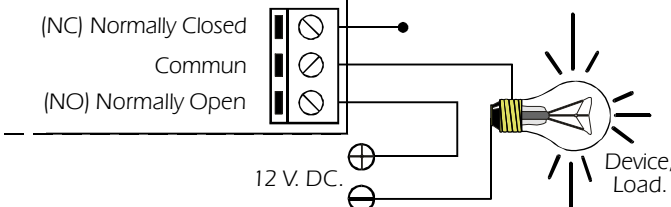
I-6

GENERAL WIRING MAP.

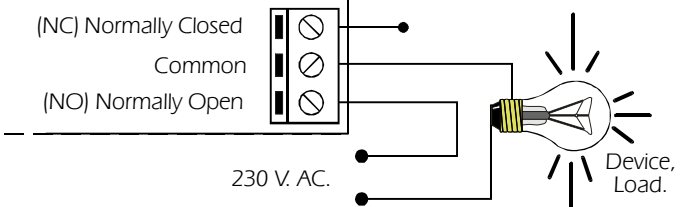


LOADS CONNECTION.

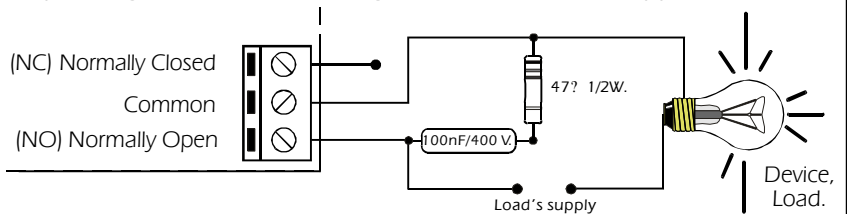
12 V DC CONNECTION



230 V AC CONNECTION



INFORMATION ABOUT THE OUTPUT. During the operating mode and according to its load, it could happen a fluctuation or an incorrect working of the output. In such case, you have to install an anti-spark circuit between both contacts of the used relay, as it is indicated on the schedule.



TECHNICAL CONSULTATIONS.

If you have any doubt, you could contact your wholesaler or our Technical Department.
 - By E-Mail, sat@cebek.com | by mail P.O Box 23455 - 08080 BARCELONA - SPAIN.
 - **Keep the invoice of this module.** For any repair, the corresponding invoice had to be added. If the invoice is not presented together with this module, the module's warranty will be automatically cancelled.

**MORE 300
MODULES.**

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

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WARRANTY

**3
YEARS**