Cebek®



LIQUIDS LEVEL DETECTOR I-6

CARACTERISTICS TECHNICAL

Voltage.	12 V. DC.
MinimumConsumpiton.	5 mA.
MaximumConsumpiton.	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

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.

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 ontheschedule. Bothare necessary for the module's protection as well as for your ownsafety, as it isrequired by the "CE" regulations. Connect the positive of the power supplytothe positive terminal indicated in the wiring map, then connect thenegative of thepower supply to the negative terminal indicated in 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 maximumlength 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 submergethe 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 youhave 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 4.7K 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 newpotentiometer to the JP1 jumper and verifying that the cursor is installed on the central terminal. This potentiometer has to be 22 K

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.

LOADS 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



GENERAL WIRING MAP.





