



# CD-6

123

## COUNTER UP & COUNTER DOWN TILL 999 With Relay output

The CD-6 circuit is a counter up & counter down till a maximum of 999.999 units, offering a pre-selection function. If you activate this function, you could select a number and when the module arrives to this number he will be stopped and the relay activate the load.

Number are visualised thanks to 6 displays of 0.5" (13,5 mm). It includes a reset function, pre-selector and screen.

It works with 12 V. D.C. Suggested power supply FE-4 or 12 V. Battery.

### TECHNICAL CHARACTERISTICS.

Operating Voltage .....	12 V. D.C.
Minimum Consumption .....	280 mA.
Maximum Consumption .....	350 mA.
Displays .....	6 Displays of 0,5" (13,5 mm).
Maximum Frequency To Count .....	20 Hz
Protection Against Polarity Inversions .....	Yes.

### OPERATING.

**POWER SUPPLY.** The CD-6 circuit had to be supplied by a 12 V. D.C. power supply.

Then, we recommended you the FE-2 power supply which has been developed to perfectly answer to the circuit needs or 12 V. batteries for mobile applications.

Connect the positive of the power supply to the positive terminal indicated in the wiring map, then connect also the negative of the power supply to the negative terminal indicated in the circuit. **Verify** that the assembly has been correctly done.

**OPERATING.** Connect a push button to the indicated impulses input terminal and activate it.

Each time that you press the push button, the module will receive an impulse and will display the number corresponding to the count up or count down.

**COUNT UP & COUNT DOWN.** Count up & Count down functions are separately made. Connect a switch to the terminal indicated in the wiring map. If the switch is open, the module will count up and if you close it, the CD-5 module will count down.

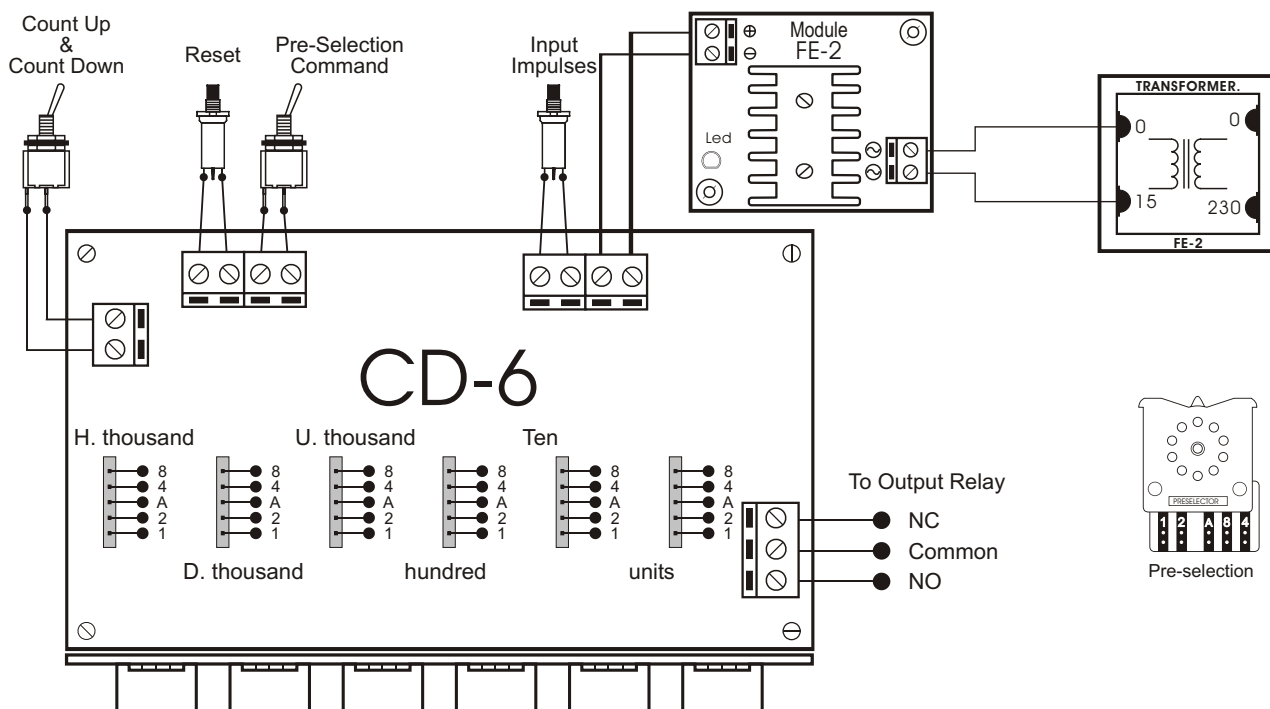
**RESET.** Connect a push button to the "reset" terminal. Each time that you press the "reset" push button, the module will start at the beginning (from Zero), deleting the registered value in the display.

**PRE-SELECTION.** Thanks to the pre-selection function, you could select a number, and when the module will arrive it is stopped, the relay is activated. **You only could is this possibility in the count up function.** To obtain this function, you have to connect pre-selectors to the indicated terminals in the circuit. **Verify that "1, 2, A, 4, 8" pre-selector terminals correspond to "1, 2, A, 4, 8" module terminals.**

Select the number thanks to pre-selectors. **Do never start this function when the circuit is counting up or if the "pre-selection command" is activated.** Firstly, you have to stop count up impulses input and disconnect the pre-selection command if it was activated.

Connect a switch to the terminal indicated in the wiring map as "pre-selection command". If you maintain it open, the module even if there is a selected number, it will normally count up or count down. Nevertheless, if you close it, you will activate the pre-selection function and when impulses received by the module will correspond to the selected number, it activate the relay, connecting the load and stopping the count up. Once the pre-selection made if you wish to maintain it, to activate again the count up and deactivate the relay, you have to make a reset, starting again the count up and the cycle. If you wish only continue the count

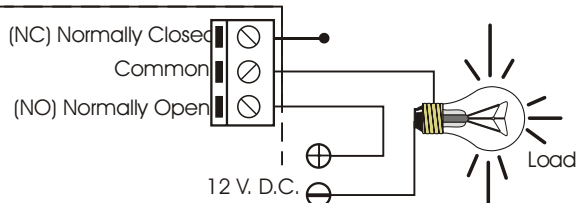
## HOW TO INSTALL THE CIRCUIT.



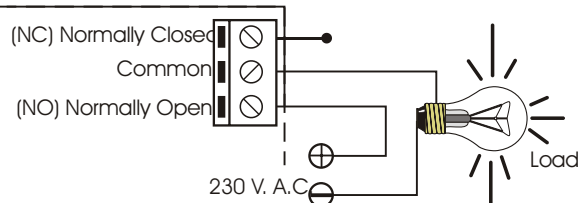
## CONNECTION OF THE LOAD.

**OUTPUT. CONNECTION OF THE LOAD.** The output Module (CD-6) is controlled by a relay, allowing any load until 2 A. The relay has two output terminals the normally open at quiescent (NO), and the common. The operating of this mechanism is the same as a switch with two terminals NO and common, if you wish that the output will be activated during the timer. In the Output connection paragraph, you could appreciate the typical connection for a devices operating at 12 V. D.C. and to operate at 230 V. A.C.

## 12 V. D.C. To Connection.

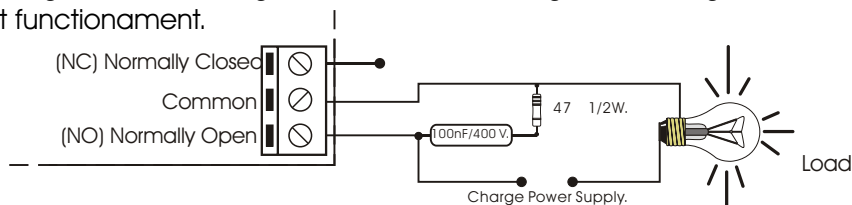


## 230 V. A.C. To Connection.



**CONSIDERATION TO THE OUTPUT. LOAD.** During to the operating the module according to be charge, you can happen the fluctuation or incorrect output fonctionament.

This is wrong you have install the anti-spark (resistor & capacitor), between two contacts of the relay make's in the connection such as is to apper in the drawing.



## 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](mailto:cebek@sakma.es)

**Keep you invoice.** For any repairing could you send this with module. Else, the module will lost the warranty.

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YEARS**