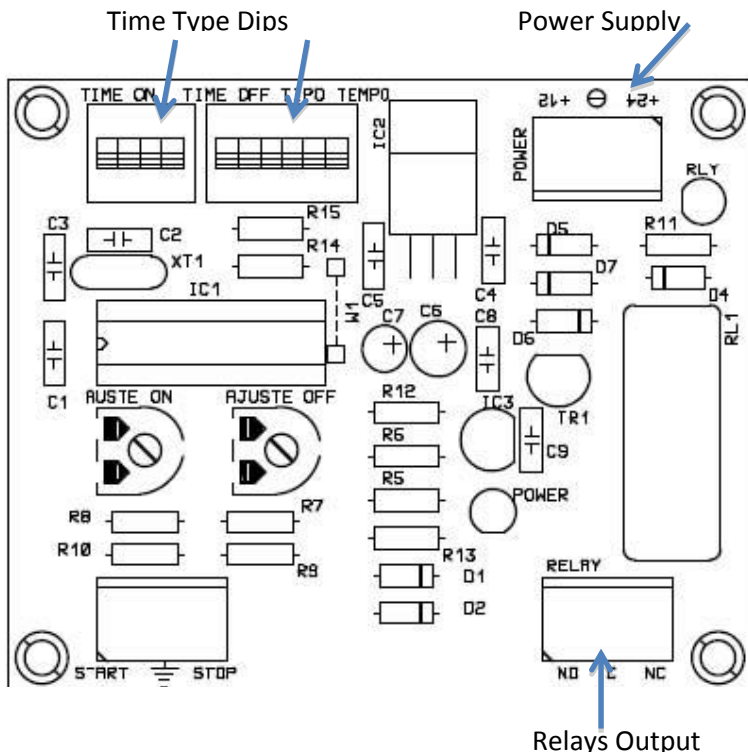


TECHNICAL CHARACTERISTICS


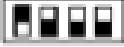






Voltage	12-24 V DC.
Maximum consumption	65 my
Output Relay/Maximum load	230 V 3A max
Minimum time ON/OFF.....	0.1 seconds
Maximum time .ON/OFF.....	60 minutes
Net weight	54 g.
Dimensions	87 X 72x 26 mm
Recommended power supply.....	FE-103
DIN RAIL (option)	C-7566

It offers 8 operating modes.
It has 8 adjustable time scales in ON and in OFF
ON/OFF Times adjustment with separated potentiometers.

- POWER Led lighted on when the timer is supplied
- RLY Led when the timer is activated
- TEMPO TYPE Dips to select the required timer model.
- ON and OFF TIME SCALES Dips to select time margins of the timer.
- ADJUSTMENT potentiometers to adjust ON and OFF times
- START button input allowing to start the timer (according to models)
- RESET button input allowing to the timer anytime.
- RELAY output with Open/closed free voltage contacts. v



TIMER TYPES

	DIPS	SW7	SW8	SW9	FUNCTIONS	Equivalent.
1		OFF	OFF	OFF	Cyclic / Voltage / ON-OFF	I-10 / I-11 / I-12
2		ON	OFF	OFF	Cyclic / Voltage / OFF-ON	
3		OFF	ON	OFF	Cyclic / Push button / ON-OFF	
4		ON	ON	OFF	Cyclic / Push button / OFF-ON	
5		OFF	OFF	ON	Timered / With Delay / Voltage	I-33 / I-34
6		ON	OFF	ON	Timered / With Delay / Push button	I-33 / I-35
7		OFF	ON	ON	Reactivation - OFF Delay / Push button	
8		ON	ON	ON	Reactivation - ON Delay / Push button	

1 - Cyclic through voltage ON/OFF (Equivalent to I-10, I-11 et I-12)

Connecting the power supply, the relay will be activated during the ON time and it will be deactivated during the OFF time. At the end of the OFF time, the ON time start again.

2 - Cyclic through voltage OFF/ON

Connecting the power supply, the relay will be activated during the OFF time and it will be deactivated during the ON time. At the end of the ON time, the OFF time start again.

3 - Cyclic through push button ON/OFF

Closing the START button, the relay will be activated during the ON time. At the end of the ON time, the relay will be deactivated during the OFF time. At the end of the OFF time, the ON time start again.

4 - Cyclic through push button OFF/ON

Closing the START button, the relay will be activated during the OFF time. At the end of the OFF time, the relay will be deactivated during the ON time. At the end of the ON time, the OFF time start again.

5 - Timing with Delay through voltage (Equivalent to I-33 and I-34)

Connecting the power supply, the OFF timing will be activated without connecting the relay. At the end of the OFF time, the relay is connected during the ON time.

6 - Timing with Delay through push button (Equivalent to I-33 and I-34)

Closing the START button, the OFF timing will be activated without connecting the relay. At the end of the OFF time, the relay is connected during the ON time.

7 - Timing with Delay and Reactivation OFF through push button









Closing the START button, the OFF timing will be activated without connecting the relay. At the end of the OFF time, the relay is connected during the ON time. If during the ON timing the push button is closed, the timing is reset and the OFF time start again. It doesn't affect the ON time.

8 - Timing with Delay and Reactivation ON through push button









Closing the START button, the OFF timing will be activated without connecting the relay. At the end of the OFF time, the relay is connected during the ON time. If during the ON timing the push button is closed, the timing is reset and the ON time start again. It doesn't affect the OFF time.

SCALES TIMING

ON TIMING SCALE

	DIPS	SW1	SW2	SW3	SCALE ON TIME
1		OFF	OFF	OFF	From 0 to 10 sec.
2		ON	OFF	OFF	From 10 to 30 sec.
3		OFF	ON	OFF	From 30 sec. to 1 min.
4		ON	ON	OFF	From 1 to 2 min.
5		OFF	OFF	ON	From 2 to 5 min.
6		ON	OFF	ON	From 5 to 10 min.
7		OFF	ON	ON	From 10 to 30 min.
8		ON	ON	ON	From 30 to 60 min.

OFF TIMING SCALE

	DIPS	SW4	SW5	SW6	SCALE OFF TIME
1		OFF	OFF	OFF	From 0 to 10 sec.
2		ON	OFF	OFF	From 10 to 30 sec.
3		OFF	ON	OFF	From 30 sec. to 1 min.
4		ON	ON	OFF	From 1 to 2 min.
5		OFF	OFF	ON	From 2 to 5 min.
6		ON	OFF	ON	From 5 to 10 min.
7		OFF	ON	ON	From 10 to 30 min.
8		ON	ON	ON	From 30 to 60 min.

TIMING PROGRAM

IMPORTANT. From our factory, the timer is supplied without any type of preregistered timing, neither operating time. You will have to program the timing before using it for the first time.

By not making any programming, the timer will function in mode type 1, time 1 second ON/OFF.

STEPS TO PROGRAM THE TIMER

Disconnect the power supply,

Select through TEMPO TYPE Dips the required model.

Select through TIME SCALES Dips the required time interval for ON and for OFF.

Select with ADJUSTMENT potentiometers the required time for ON and for OFF

Once these 3 steps done, connect the power supply and the timer will be programmed and ready to operate.

Attention. If you have selected a model starting though voltage, as soon as you will connect the power supply, the module will be activated.

OPERATING MODE

With the timer already programmed, it is ready to operate. Connect the power supply.

To start the timing press START button-

To stop/reset timing at any time press the STOP button

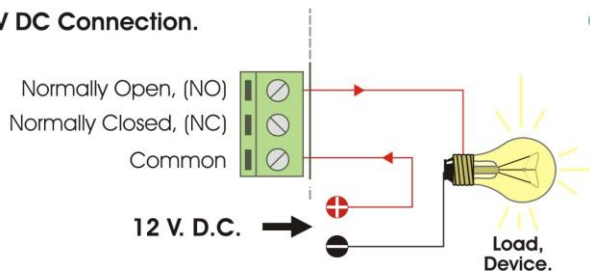
IMPORTANT. During the operating time programming Dips as time potentiometer will be ignored by the timer, for this reason you will not be able to reprogram a function till the operating time is finished.

TO REPROGRAM. Disconnect the power supply and do again the same step than the indicated one in the previous paragraph

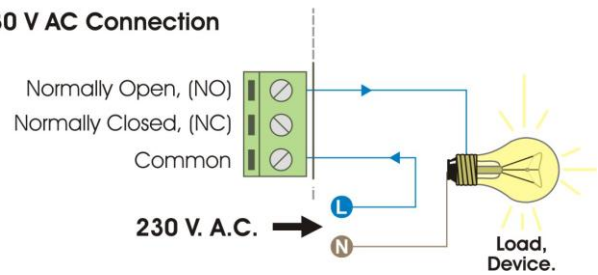
OUTPUT CONNECTION. LOAD.

The output is controlled by a relay, and accepts any device up to 3 A. The relay has three output terminals: The normally open quiescent (NO), the normally closed quiescent (NC) and the common. The operating mode is identical to a switch and the two terminals will be Common and NO. ON the following it is indicated a typical connexion for a 12V

● **12 V DC Connection.**

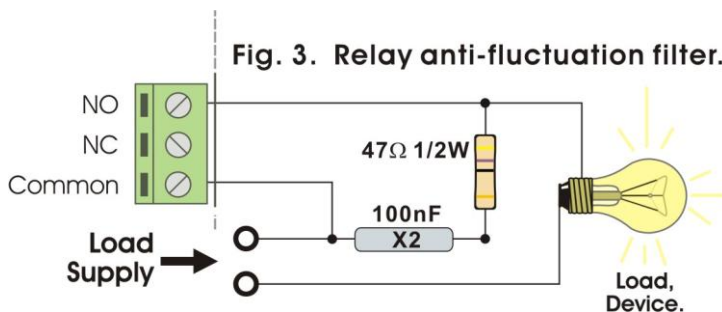


● **230 V AC Connection**



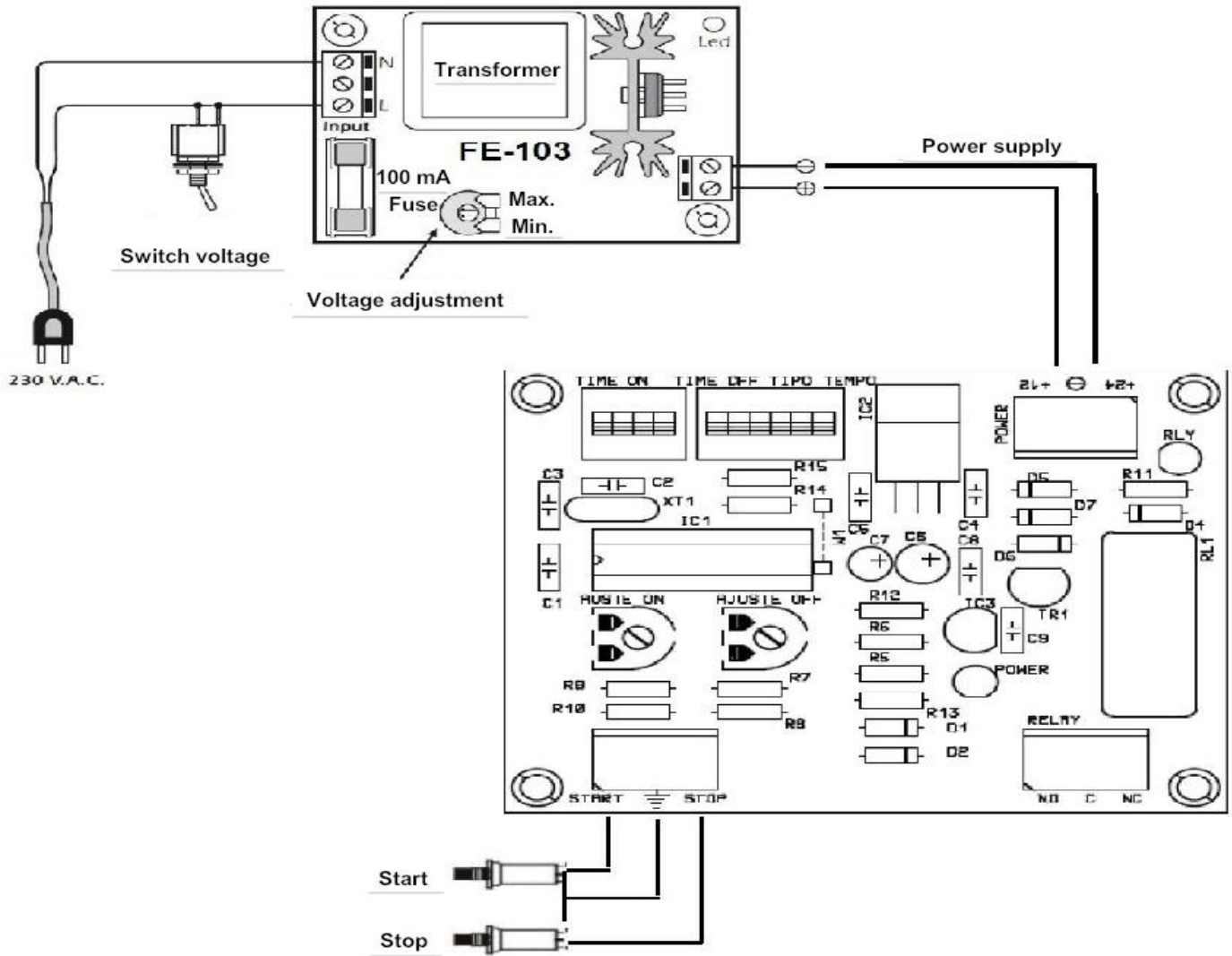
INFORMATION ABOUT THE OUTPUT.

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 between both contacts of the used relay, as it is indicated on the following drawing.



Note: To connect load at 12V DC, you have to remove the resistor and to only use the capacitor.

HOW TO INSTALL THE MODULE



Warranty and Technical incidences.

All cebek modules have a total warranty of 3 years as concern components and labour man. All damage, error or mistake due to problems independent from the circuit, connection, installation or operating mode, as well as wrong handling are not included in this warranty. More over it will be necessary the purchase invoice of this module for any claim. This manual (documentation) can be reviewed or modified without any preavis, and it doesn't involve FADISEL. S.L. The use of any of the FADISEL modules' mentioned in this manual provoke the acceptance of these commercial terms and correspondent warranty. To contact our technical depart. Please contact: - sat@cebek.com or by fax (+34) 93.432.29.95 or by mail at the following address: FADISEL - c/Quetzal, 17-21 - 08014 Barcelona - SPAIN.

CEBEK offers a Wide and complete modules range which can be of your interest. Visit our web site: www.cebek.com

