



DIGITAL TIMER 2 PROGRAMMABLES TIMES with PUSH BUTTON I-303

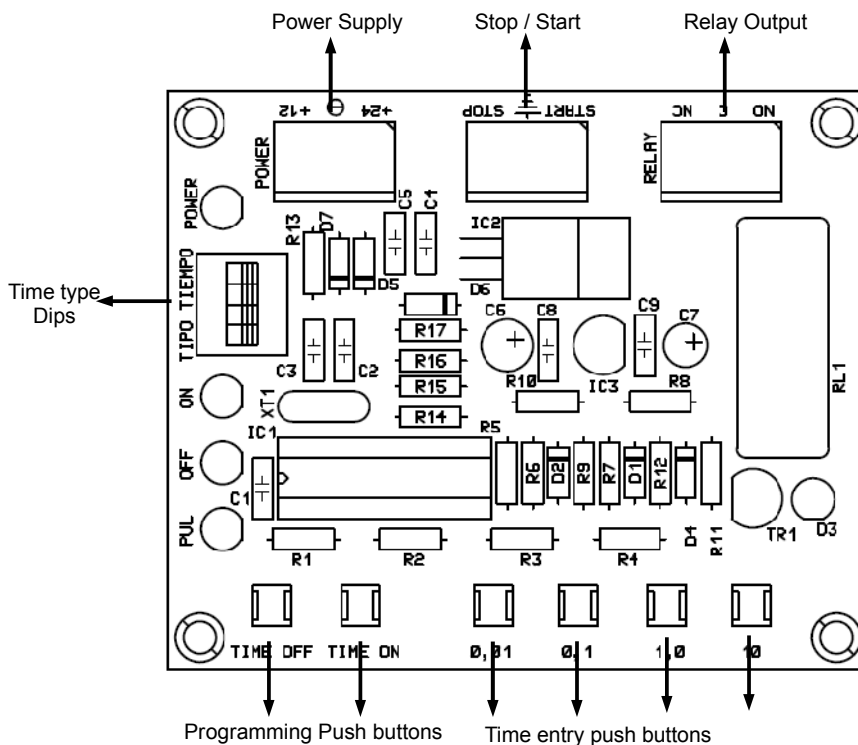


TECHNICAL CHARACTERISTICS















Power supply	12-24 V cc
Maximum Consumption	65 mA
Relay output/ Maximum Load	230 V / 3 A max
Minimum Time ON/OFF.....	0,1 sec
Maximum Time ON/OFF.....	11.930 hours (497 days)
Net Weight	59 gr.
Dimensions	87 x 72 x 26 mm.
Recommended power supply	FE 103
RAIL Din (Option)	C-7566

GENERAL CHARACTERISTICS

- Composed by 4 operating modes
- It has 16 different time scales
- Led POWER lighted on when the timer is supplied
- Led RLY lighted on when the relay is activated
- Led PUL lighted on when time keys are pressed to program
- Led ON lighted on during the programming of the ON time
- Led OFF lighted on during the programming of the OFF time
- Dips TIPO TIEMPO to select the wished timer model
- ON for entry/exit of the ON time programming mode
- OFF for entry/exit of the OFF time programming mode
- Push buttons 0,1 / 1 / 10 / 100 sec to entry in the operating time.
- START Push button input allowing to start the timer (according to the model)
- START Push button input allowing to stop the time in any moment
- RELAY output with voltage free Open/Closed contacts



TIPOS DE TEMPORIZADOR

	DIPS	SW1	SW2	Sw3	Sw4	FUNCTION	Equival.
	1	OFF	OFF	OFF	OFF	Cyclic / Voltage / ON-OFF	I-10
	2	ON	OFF	OFF	OFF	Cyclic / Voltage / OFF-ON	
	3	OFF	ON	OFF	OFF	Cyclic / Push Button / ON-OFF	
	4	ON	ON	OFF	OFF	Cyclic / Push Button / OFF-ON	
	5	OFF	OFF	ON	OFF	Cyclic / Push Button / Reset / ON-OFF	
	6	ON	OFF	ON	OFF	Cyclic / Push Button / Timed / ON-OFF	
	7	OFF	ON	ON	OFF	Cyclic / Voltage / Timed / ON-OFF	
	8	ON	ON	ON	OFF	Delayed / Timed / Voltage	I-33
	9	OFF	OFF	OFF	ON	Delayed / Timed / Push Button	I-33
	10	ON	OFF	OFF	ON	Delayed / Timed / Reset / Push Button	
	11	OFF	ON	OFF	ON	Delayed / Restart OFF / Push Button	
	12	ON	ON	OFF	ON	Delayed / Restart ON / Push Button	
	13	OFF	OFF	ON	ON	Delayed / Cumulative OFF / Push Button	
	14	ON	OFF	ON	ON	Delayed / Cumulative ON / Push Button	

TIMES TYPE

1 – ON/OFF Cyclic activated per voltage (Equivalent to I-10 / I-11 / I-12 modules)

When you connect the power supply, the relay is activated during the ON time. Once the ON time finished, the relay will be deactivated during the OFF time. After the OFF time, the ON time start again.

2 - OFF/ON Cyclic activated per voltage

When you connect the power supply, the OFF time starts without activate the relay. Once the OFF time finished, the relay will be activated during the ON time. After the ON time, the OFF time start again.

3 - ON/OFF Cyclic activated per push button

When you close the START push button, the relay is activated during the ON time. Once the ON time finished, the relay will be deactivated during the OFF time. After the OFF time, the ON time start again.

4 - OFF/ON Cyclic activated per push button

When you connect the power supply, the OFF time starts without activate the relay. Once the OFF time finished, the relay will be activated during the ON time. After the ON time, the OFF time start again.

5 - ON/OFF Cyclic reset activated per push button

When you close the START push button, the relay is activated during the ON time. Once the ON time finished, the relay will be deactivated during the OFF time. After the OFF time, the ON time start again. If during the ON or OFF timing, you close the START push button, the timer will be reseted.

6 - ON/OFF Cyclic timed activated per push button

When you close the START push button, the timing is started, and the relay will be cyclically activated and deactivated during the ON time. ON time to adjust operating timing. OFF Time to adjust the cyclic activation and deactivation timing of the relay.

7 - ON/OFF Cyclic timed activated per voltage

When you connect the power supply, the timing is started, and the relay will be cyclically activated and deactivated during the ON time. ON time to adjust operating timing. OFF Time to adjust the cyclic activation and deactivation timing of the relay.

8 – Delayed & Timed activated per voltage (Equivalent to I-33 / I-34 modules)

When you connect the power supply, the OFF timing without activates the relay. Once the time finished, the relay is activated during the ON time.

9 – Delayed & Timed activated per push button (Equivalent to I-33 / I-34 modules)

When you connect the START push button, the OFF timing without activates the relay. Once the time finished, the relay is activated during the ON time.

10 - Delayed & Timed reset activated per push button

When you close the START push button, the OFF timing without activates the relay. Once the OFF time finished, the relay will be activated during the ON time. If during the ON or OFF timing, you close the push button, the timer will be reseted.

11 OFF Delayed & Timed & Restart activated per push button

When you close the START push button, the OFF timing without activates the relay. Once the time finished, the relay will be activated during the ON time. If during the OFF timing, you close the push button, the timing will be reseted and the OFF time restart. It doesn't operate with ON time.

12 ON Delayed & Timed & Restart activated per push button

When you close the START push button, the OFF timing without activates the relay. Once the time finished, the relay will be activated during the ON time. If during the ON timing, you close the push button, the timing will be reseted and the ON time restart. It doesn't operate with OFF time.

13 OFF Delayed & Timed & Cumulative per push button

When you close the START push button, the OFF timing without activates the relay. Once the time finished, the relay will be activated during the ON time. If during the OFF timing, you close the push button, another OFF time period is cumulated. It doesn't operate with ON time.

14 ON Delayed & Timed & Cumulative per push button

When you close the START push button, the OFF timing without activates the relay. Once the time finished, the relay will be activated during the ON time. If during the ON timing, you close the push button, another ON time period is cumulated. It doesn't operate with OFF time.

TIME ENTRY PUSH BUTTONS

0,1	To add 0,1 sec.to the timed time
1	To add 1 sec.to the timed time
10	To add 10 sec.to the timed time
100	To add 100 sec.to the timed time

TIMER PROGRAMMING**IMPORTANT.**

From factory, the timer is supplied without timing or operating time, you have to program it yourselves before to use it for the first time. If you don't inset any time or program, the module will act as Type 1, with 1 sec ON/OFF

STEPS TO PROGRAM THE TIMER

Connect the power supply, the LED power will light on.

Select on TIPO TEMPO Dips the wished model

ON Time programming

Press during 2 sec the ON key. In that moment, the ON Led will continuously light on to indicate the timer is in ON programming mode.

Select on TIPO TEMPO Dips the wished model

Press so many times as you want "times" push buttons, with each pulse the PUL Led will light on and cumulate the time of the selected push button.

For instance to entry 32 sec, youhave to press 3 times the "10" push button, then 2 times the "1" push button, the total will 32.

Once the time introduced, press the ON key till the ON Led intermittenly light on to indicate the correct time recording.

OFF time programming

You have to maintain pressed OFF key, during 2 sec. In that moment, the OFF led will continuously light on, to indicate the timer is in OFF programming mode.

Press so many times as you want "times" push buttons, with each pulse the PUL Led will light on and cumulate the time of the selected push button.

Once the time introduced, press the OFF key till the OFF Led intermittenly light on to indicate the correct time recording.

Once these steps done, the timer is programmed and ready to be used.

Note: If you have selected the starting mode per voltage, as soon as you will connect the power supply, the module will be activated.

OPERATING MODE

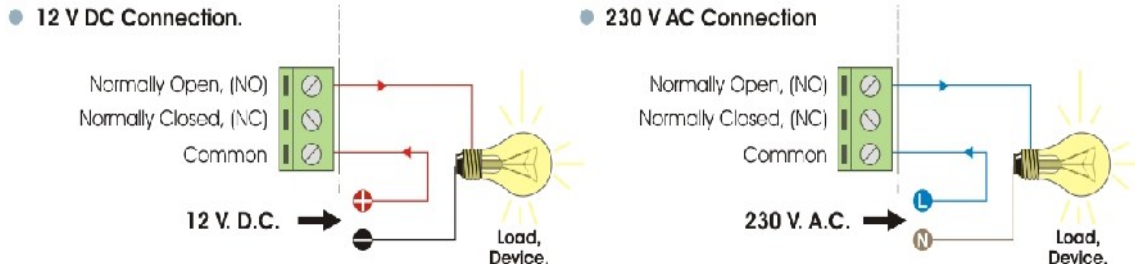
With the programmed timer, you can start to use it. To start the timing, you have to press the START button.

To stop/reset the timing in every moment, you have to press the STOP button.

IMPORTANT: During the operating time, Programming DIPS and push buttons are ignored by the timer, therefore you can't reprogram any function till the operating time is finished.

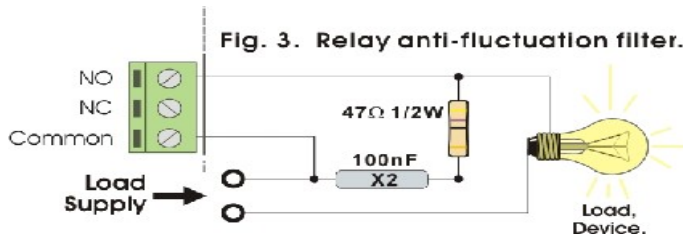
REPROGRAMMING . Proceed as it is indicated in the previous paragraph **TIMER PROGRAMMING**

OUTPUT CONNECTION. LOAD. The I-303 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. Install it between the Common and the NO in accordance with the drawing "Output Connection. Load". For the inverse function you have to place the load between the NC and Common. In the drawing it is indicated how to connect 12V DC and 230V AC loads



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 drawing.

230V AC Connection



NOTE: To connect the 12V DC Loads, you have to remove the resistor and only use the capacitor

WIRING MAP

