Multi-function Timer Module Model No: **TIMER**

Specifications:

Software revision displays on power up

v 0 0 2

1 2 3 4 5   SET   <   >

POS
NEG

N.C   N.O   COM   TRIG   RESET   GND   +12VDC

Applications:-

The **TIMER** can be programmed with 10 different functions. This module can be used for customising siren output times, beam bypass, guard awake and auto gate & garage door closure applications. A variety of applications and functions are visualised for this product and with a bit of imagination the unit will solve various security installation issues.

Functions:-

- Timed Relay output from 1sec to 59minutes & 59 seconds
- Timed Relay output from 1Minute to 23 hours
- Auto garage door closure
- Guard awake timer
- Pulse stretcher
- Counter
- Count down trigger output
- False alarm prevention
- Momentary to Latching

Please note: * eeee on the display indicates a non valid dip-switch setting.

TIMED RELAY OUTPUT : Minutes : Seconds	F---1
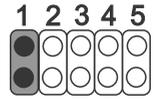
Not - Re-triggable

Once the unit is triggered with either a NEG/POS on the TRIG input it will Switch the Relay for the Set time.

The Max time you can set is: 59 Minutes : 59 Seconds.

At any time the Relay can be switched off by triggering the RESET input.

Programming :

1. Select JUMPER1 = ON (all others off). The unit will Flash, F--1

2. Press the **SET** button.

3. Use the **<** (Down) & **>** (Up) Buttons to select the value you want to set.

4. Press the **SET** button to save the value.

5. Continue with step 2 - 4 until all the values are set.

TIMED RELAY OUTPUT : Hours : Minutes	F---2
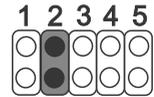
Not - Re-triggable

Once the unit is triggered with either a NEG/POS on the TRIG input it will Switch the Relay for the Set time.

The Max time you can set is: 23 Hours and 59 Seconds. At any time the Relay can be switched off by

triggering the RESET input.

Programming :

1. Select JUMPER 2 = ON (all others off). The unit will Flash F--2

2. Press the **SET** button.

3. Use the **<** (Down) & **>** (Up) Buttons to select the value you want to set.

4. Press the **SET** button to save the value.

5. Continue with step 2 - 4 until all the values are set.

## AUTO GARAGE DOOR / GATE CLOSURE : Minutes : Seconds   F---3
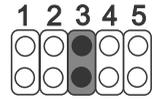
Once the gate or garage door is left open for longer than the

SET time, the unit will trigger the Relay for 1 second.

The Max time you can set is: 59 Minutes & 59 Seconds. 59:59

The unit automatically resets when the door closes.

* The RESET Input is **disabled** in this function.

This function will only work with a POS trigger

Programming :

1. Select **JUMPER 3 = ON** (all others off).

    The unit will Flash F--3

2. Press the **SET** button.

3. Use the **<** (Down) & **>** (Up) Buttons to

    select the value you want.

4. Press the **SET** button to save the value.

5. Continue with step 2 - 4 until all the values are set.

10:00

Use a Normally Closed **(N.C)** Roller Shutter door contact. When the door opens the contact must open.
Wire the POSITIVE to COMMON. The N.C to TRIG SET the Jumper for POS. NEG trig will not work.

N.C N.O COM TRIG RESET GND +12VDC

POS
NEG

COM
N.C
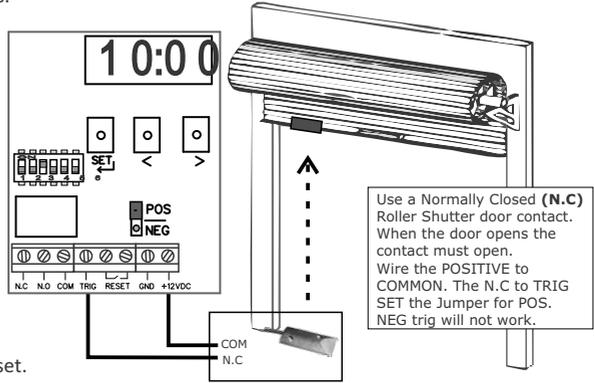
GUARD AWAKE TIMER / GUARD POLICEMAN   F---4
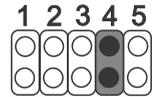
A Security guard will need to RESET the unit within the SET time in order to prevent the unit from triggering a

"FAIL TO PATROL" output on its RELAY contact.

The RESET needs to be pressed and released in order to reset the timer back. This prevents anti-jamming of the

RESET input. The max time you can set is: 59 Minutes and 59 Seconds.

The unit will continue to re-trigger every time the counter gets to zero.

Programming :

1. Select **JUMPER 4 = ON** (all others off). The unit will Flash F--4

2. Press the **SET** button.

3. Use the **<** (Down) & **>** (Up) Buttons to select the value you want to set.

4. Press the **SET** button to save the value.

5. Continue with step 2 - 4 until all the values are set.

PULSE STRETCHER   F---5
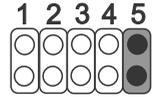
The unit can increase or stretch a very short trigger pulse to approx 2 Seconds.

Applications include connecting to Window Vibration sensor which trigger a very short pulse when triggered.

With this device you can connect the Vibration sensor to a Transmitter which requires a longer trigger input.

* The RESET Input is disabled in this function.

Programming :

1. Select **JUMPER 5 = ON** (all others off). The unit will Flash F--5

* This function is factory set to output for 3 seconds when triggered and can not be changed.

COUNTER   F---6
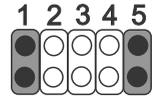
Applications: This function can be used to count how many power failures occur from Eskom

in a month, or count how many times a door opens at a busy gate.

Function: The unit must be triggered with a POS trigger only. The unit will count from 0 to 9999

The RESET Input will reset the value back to 0

Programming :

1. Select **JUMPER 5 & 1 = ON** (all others off). The unit will Flash F--6

* This function is factory set and can not be changed.

COUNT DOWN TRIGGER OUTPUT   F---7
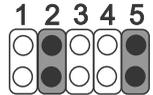
The unit can be triggered with a very short trigger either Pos/Neg.

The polarity must be selected by the user. The unit counts down the input pulses until it reaches zero.

When the count reaches zero, the relay will trigger for 1 second and then start again from the SET count value.

A RESET will restart the count at the programmed SET point.

Programming :

1. Select **JUMPER 5 & 2 = ON** (all others off). The unit will Flash F--7

2. Press the **SET** button.

3. Use the **<** (Down) & **>** (Up) Buttons to select the value you want to set. Max allowable limit is: 9999

4. Press the **SET** button to save the value.

5. Continue with step 2 - 4 until all the values are set.

FALSE ALARM PREVENTION F---8

1 2 3 4 5
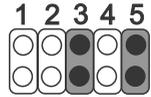
Applications: Retirement village Panic pack.

Function: The unit must be triggered at least twice within a 5 seconds window period.

This will prevent false activations occurring as it forces the user to press the remote twice.

 The Relay will trigger for 3 seconds.

Programming :

1. Select **DIP 5 & 3 = ON** (all others off). The unit will Flash F--8

* This function is factory set to output for 3 seconds when triggered and can not be changed.

MOMENTARY TO LATCHING OUTPUT F---9

1 2 3 4 5
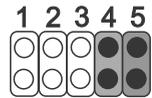
Applications: Used to convert a momentary output to a Latching.

Function: The unit can be triggered with a very short trigger either Pos/Neg.

The Relay will then Latch ON. If another momentary trigger occurs then

the Relay will Unlatch

Programming :

1. Select **JUMPER 5 & 4 = ON** (all others off). The unit will Flash F--9

* This function is factory set and can not be changed.

TIMED RELAY OUTPUT (RE-TRIGGABLE) : Minutes : Seconds F-10

1 2 3 4 5
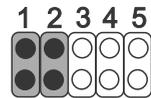
Re-triggable

Once the unit is triggered with either a NEG/POS on the TRIG input the Relay will Switch for the Set time.

The Max time you can set is: 59 Minutes : 59 Seconds. If the TRIG input is re-triggered the time will reset

and continue to count down. At any time the Relay can be switched off by triggering the RESET input.

Programming :

1. Select **JUMPER 1&2** = ON (all others off). The unit will Flash F-10

2. Press the **SET** button.

3. Use the **<** (Down) & **>** (Up) Buttons to select the value you want to set.

4. Press the **SET** button to save the value.

5. Continue with step 2 - 4 until all the values are set.

Wiring Diagram