

Smart Switch Dual Programmable Timer Set-Up Instructions

Model: SDP-003

The Smart Switch Dual Programmable Timer is a Universal Programmable Timer. Just program the On Time required, the Off Time required and the start cycle; connect the Input connection (*Fig. 2*); connect the Power and Relay (*Fig. 3*) and it's ready to go.

Programmable On and Off Time Options (Actuate to $\pm 0.1\%$)

Option 1 sets seconds from 1 to 240

Option 2 sets minutes from 1 to 240

Option 3 sets hours from 1 to 240

Option 4 sets days from 1 to 240

The On and Off Times are completely independent (e.g. you can set the On Time for 10 seconds and the Off Time for 10 days or vice versa).

Input Trigger Option (*Input One*)

By using Input One the device is triggered by a switch push and release. The timer will complete the first time cycle then the second time cycle then halt waiting for another trigger. When the timing cycle is running a second push will cancel the cycle (reset).

Input Trigger Option (*Input Two*)

By using Input Two the device is triggered by a switch push or it can be placed in continuous loop mode by wiring Common and Input Two together. The timer will complete first time cycle then the second time cycle and continue this loop until power is removed. In this mode Input One can be used to cancel the cycle (reset).

Programming the Device: ENSURE INPUT TWO IS NOT IN CONTINUOUS LOOP MODE

Step 1 – Placing the unit in program mode (see *Fig. 3* for button layout). After wiring and applying power hold the set button down for 3 seconds. The led will give 5 quick flashes indicating you have entered program mode.

Step 2 – Setting up seconds, minutes, hours or days (pause between pushes and wait for the led to flash).

Push the x1 button:

- Once for seconds (the led will flash once indicating second mode);
- Twice for minutes (the led will flash 2 times indicating minute mode);
- Three times for hours (the led will flash 3 times indicating hour mode); or
- Four times for days (the led will flash 4 times indicating day mode. 1 day = 24 hours)

A fifth push will cancel and start back at *Step 2* (the led will give 4 quick flashes to indicate this).

Once the above time mode is selected push the set button again (the led will flash once to indicate this has been set).

Step 3 – Setting the time – Next push any combination of the x1 or x10 buttons to select the time required (the led will flash with each push indicating a valid key push).

For example:

Time required = 50 (seconds, minutes, hours or days) you can either push the x1 button 50 times or push the x10 button 5 times

Time required = 56 (seconds, minutes, hours or days) push the x10 button 5 times and the x1 button 6 times.

Step 4– Setting – once the above time is selected push the set button (the led will flash once to indicate this).

Step 5– Setting On or Off time. Push either the x1 or the x10 button. The x1 button will set the On Time and the x10 button will set the Off Time. (The led will give 5 quick flashes indicating you have now programmed the device and left program mode).

Please Note: Steps 1 to 5 have to be performed for both the On and Off Times

Programming the Start Timer – Setting the timer to start in the On or Off mode.

Step 1 – Hold the x10 button down for 3 seconds (the led will flash 5 times to indicate this program mode)

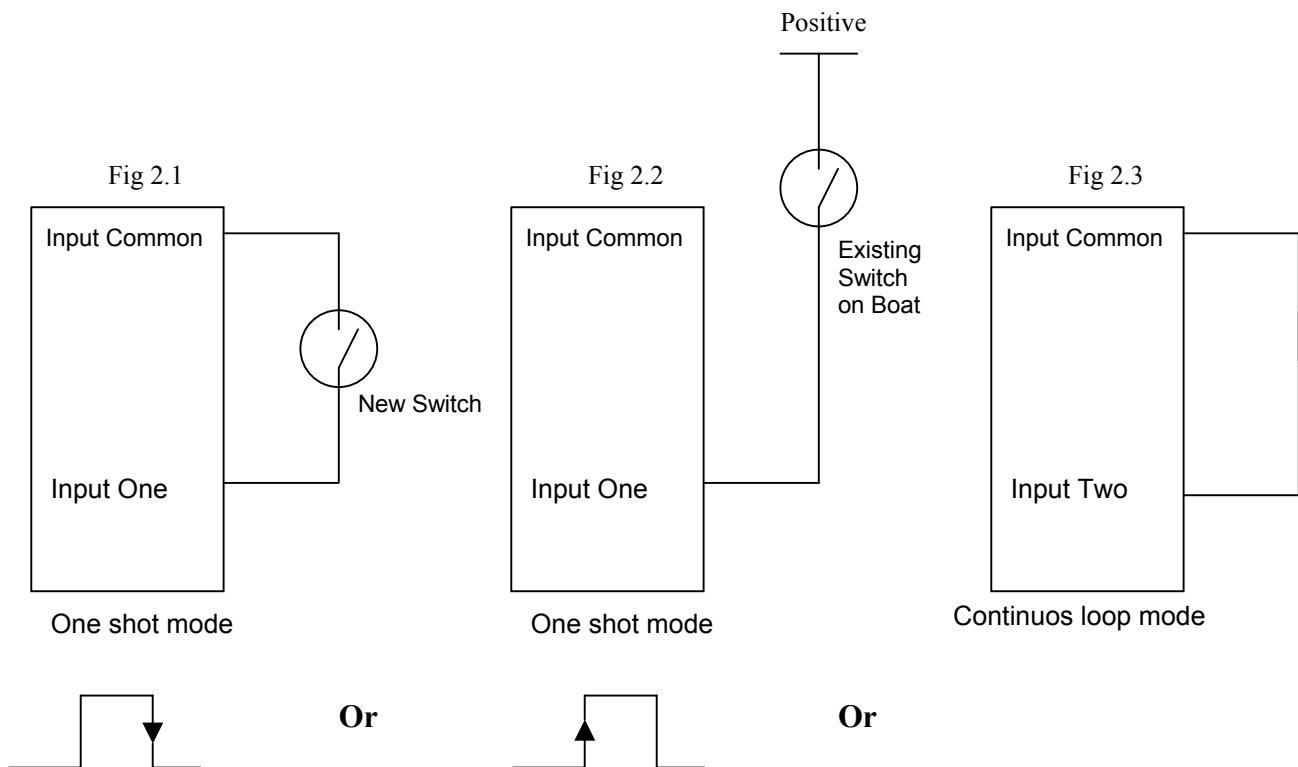
Step 2 – Push the x1 button to start with the On Time or push the x10 button to start with the Off Timer (the led will flash once indicating a valid key push).

Step 3 – Push the set button (the led will give 5 quick flashes indicating you have now programmed the device and left program mode).

The device is now programmed and ready for use. If you make an error or want to cancel the programming operation simply turn the power off, wait a few seconds power the timer back on and start again from Step 1.

Input Wiring (Fig. 2)

The triggering switch can be connected to Input Common and Input One. (fig 2.1) **or** from any existing switch (fig.2.2) (max 37v) provided it has a common negative to the Timer, **Or** the device can be placed in continuous loop as per (fig 2.3) (switch not supplied)



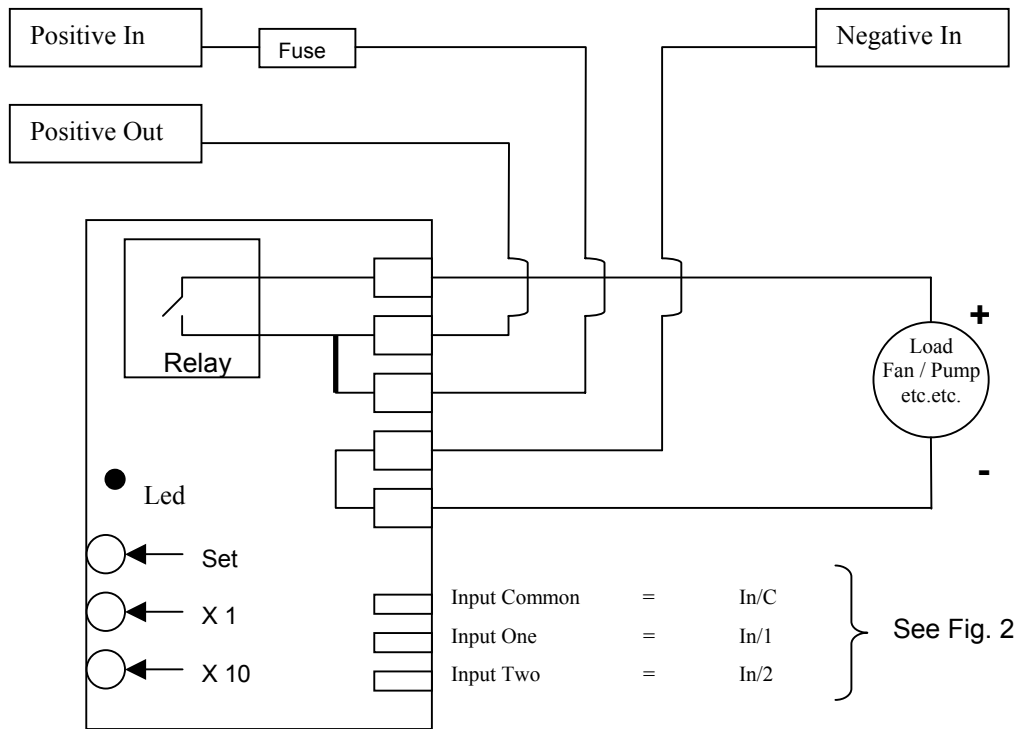
Electrical Specifications

Supply Voltage =	12 or 24 Volts DC (Auto-sensing)
Current Draw =	12 mA @ 12 Volts
Output Load =	40 amps @ 12 Volts
Input Trigger =	5 ~ 37 Volts DC
Input =	Voltage and EMI protected
Data Retention =	40 years (without power)

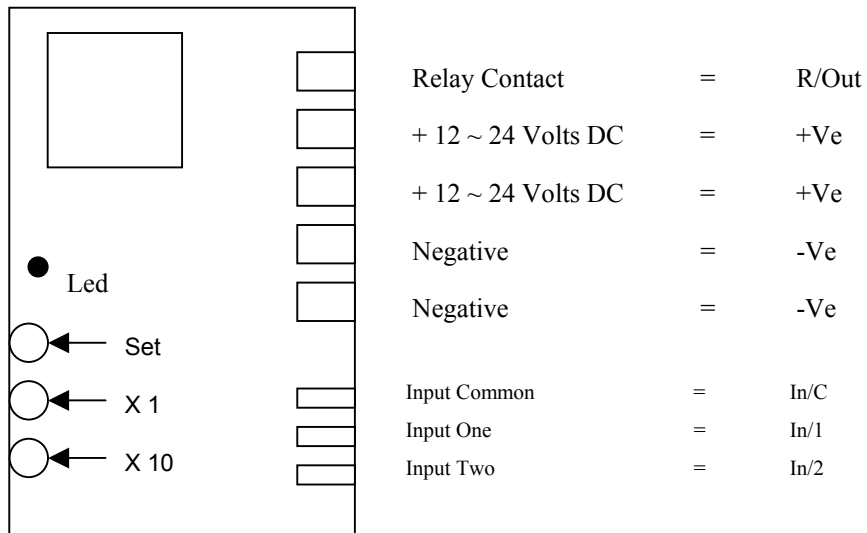
Output Wiring

The Relay Common Terminal is internally linked (shown in bold) between the Positive In & Positive Out terminal. If required, this link can be removed making the Positive Out terminal the Relay Common giving clean relay contacts out. Otherwise just connect as shown below.

Fig. 3



Connections



Please Note

DO NOT cover the ventilation slot at the back and top of this device.

This device should be fuse protected (30 Amp maximum) and mounted in a dry area.

For further inquiries visit our website at www.smartswitch.co.nz

PATENT PENDING