



# Timer Light Switch CPTS01

( REV 2 SOFTWARE 12 Volt Input Version )

## Operation – CPTS01-R2 Model (Identified by 3 Red LED's)

1. Single button press in the centre of the Logo to start a timed output.  
There are 3 times available 30, 60 & 90 minutes.
2. The current timer programme is displayed by the “PRG” LED.
  - a. 1 flash = 30 minutes
  - b. 2 flashes = 60 minutes
  - c. 3 flashes = 90 minutes
  - d. On Constant = On Constant until switched off or Low Battery condition
3. Timer program is User changeable by holding your finger on the button when you first turn on the lights.
  - a. After 5 seconds of holding the button the “PRG” LED will change from the current flash rate to the next in the sequence. The longest you need to hold is 10 to 15 seconds to cycle through the 4 programs.
  - b. Once you have your desired time just release the button.
  - c. Note in Constant “ON” there is no timer function and output stays on until it is turned off by button press or a low battery condition.
4. Once the Timer light switch is started there will be the “ON” LED lit to show there is output from the switch to turn on your lights.
5. The “PRG” LED also lights up and flashes out the current time program.  
As the time counts down the flash count will also change.
  - If you started with 3 flashes (90 minutes) when there is only 60 minutes left the LED will flash 2 times and when there is only 30 minutes left it will flash only once.
  - When the timer enters the last 60 seconds the “PRG” light goes out and the output will cause the Fridge Van lights to flash 4 Times to make you aware the timer is running out.
  - If you press the button during the last 60 seconds you can reset the run time without the lights going out or press and hold to reprogram a shorter run time.
6. The Timer light switch also has built in over current and short circuit protection.  
If the Output Load exceeds 10 amps the output is turned off (“ON” LED off) and the “ERR” LED will light up.  
After 2 seconds the Timer Light switch will attempt to restart. If the overload still exists the output will be turned off again and the Overload cycle will repeat.
7. If the Output has a dead short to ground the output is turned off (“ON” LED off) and the “ERR” LED will light up. If the Short is only momentary the Timer Light switch will recover and your lights come back on. If the short remains for 60 seconds the Timer Light switch will no longer attempt to turn the lights back on.
8. The Timer Light switch also has a low voltage detection function to prevent flattening of the battery it is connected to.
  - a. If the Battery voltage falls below 12 volts the output is turned off and the “ERR” LED will flash.
  - b. Once the battery voltage exceeds 12.5 volts the output will turn back on again.
  - c. If you attempt to turn of the Timer Light switch with the battery voltage below 12.5 volts the output will not turn on and as above the “ERR” LED will flash.
9. During a Timer cycle the “PRG” LED is always on regardless of overload or other errors until the time cycle has expired.
10. If the input Voltage exceeds 18V the output will not switch on when the button is pressed and all LED's will flash until the voltage is within the normal operating range.





**CHARGE  
PLUS**

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## Wiring

1. Red Wire – 12 volts positive direct to battery

### **DO NOT**

- a. **CONNECT TO PARK LIGHTS ON A TRAILER AS IT CAN BE A CHOPPER REDUCED VOLTAGE AND THIS MAY DAMAGE THE UNIT AND VOID THE WARRANTY.**
- b. **CONNECT TO 24 VOLTS AS THIS UNIT IS ONLY DESIGNED FOR 12 VOLT ELECTRICAL SYSTEMS. DOING SO WILL VOID THE WARRANTY.**

(Circuit breaker of 20 amps is recommended to protect the wiring from the switch to the battery)

2. Black Wire – Ground
3. White Wire – Output wire to Lights
4. Green Wire – Remote switch input
  - a. Momentary connection to ground will start a timer cycle
  - b. If it is permanently shorted to ground this is ignored by the Micro processor

## Specifications

DC Input Voltage Range	9V-18V and Automotive Load Dump Rated to 60V
Standby Current	Less than 1 mA
Standby Current with timer running but no output load	Less than 25 mA
Continuous Output Current	10 amps
Ambient Temperature	-40°C to +85°C
Warranty	2 years