Menace RC PyroTRIGGER - Add instant smoke to your electric models.

Controlled via an aux channel on your RC transmitter, it needs no extra power source.
Thanks to its smart reservoir capacitor, it charges off your receiver's 5V supply.
When you hit the switch, the capacitor unleashes the current needed to ignite smoke — giving your model that epic, realistic effect.

WARNING **** TURN ON RADIO FIRST BEFORE SWITCHING ON YOUR MODEL****

To ensure the RC PyroTRIGGER does not fire when your model is switched on and the receiver signals are settling and going through their start up routine it is essential that your radio transmitter is switched on first and all the switches are in the OFF (Low PWM) position.

INSTALLATION

Plug into the receiver
Connect to the smoke grenade e-match
It is recommended on the first installation that you test the operation of the RC PyroTRIGGER without the smoke connected to test the installation.

OPERATION

The RC PyroTRIGGER waits 6.5 seconds before checking the input receiver PWM signal; this allows the receiver to go through its start-up routine and to charge the capacitor.

The receiver input PWM control signals must meet the following
High >1750uS
Low <1250uS

Arming Low PWM must be low for more than 1000mS to enable the PyroTrigger to ARM.
Firing High PWM must be high for more than 250mS to fire the PyroTrigger

INDICATION LEDS

The RC PyroTRIGGER is ready when both RED LED and BLUE LED are solid lit.

Red led will light when the e-match is connected.
Blue Led
Solid Blue - is armed and ready to fire
Fast Flashing Blue - means there is a problem with the PWM signal, it is either High or no PWM signal is detected
Double Blink - means the trigger has fired.

INSTALLATION CASCADE OPERATION

If you have only one auxiliary PWM channel spare you can daisy chain more than one RC PyroTRIGGER by using the 'Ein' and 'Eout' pads.

First connect the input leads together with a splitter cable to the receiver auxiliary channel.

For the 1st RC PyroTRIGGER solder a wire from the Eout pad to the Ein pad of the 2nd RC PyroTRIGGER, you can then solder the Eout of the 2nd RC PyroTRIGGER to the Ein of the 3rd RC PyroTRIGGER and so on.

The 1st RC PyroTRIGGER will take priority and only this one will arm. When the PWM goes high the 1st will fire, but the 2nd and 3rd will not. When the PWM goes low after firing the 1st, then the 2nd will arm, when the PWM goes high the 2nd will fire. It will follow this sequence for all that are connected in the daisy chain via the Eout and Ein pads.

SPECIFICATION

Input voltage range 4.75V to 9.0V
Max current loading 152mA pk with 5V supply.
Start up delay time 6.5 seconds
Signal PWM arm: <1250uS more than 1000mS
Signal PWM fire: >1750uS more than 250mS
Charge time. 6.5 seconds
Weight: 10.5g including cable.
Dimensions: L43.0 x W13.5 x H16.0 mm
Input connection: Type JR universal servo
Output connection: Spring terminals

PRODUCT PAGE

https://menacerc.co.uk/product/menace-rc-pyrotrigger

3D PRINT SMOKE HOLDER

https://www.thingiverse.com/thing:7140509