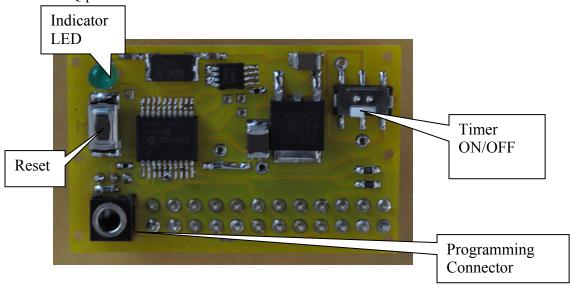
Black Magic Extended Timer

2009 or later Model with .1" or 2.54mm spaces

Features

- Two versions of the timer . standard [green] and V [yellow]. VR regulates the voltage to the servos, standard does not.
- F1A and F1B/F1Q support
- Standard Tow Hook
- Mechanical Relatch Tow Hook
- M&K Style Impulse Hook
- Electronic Relatch Tow Hook
- REN Hook SA
- 4 flight servos plus tow hook servo
- Gust Debounce
- OLA with impulse
- Variable acceleration with other hooks
- Adjust D/T from Tow hook/Start Button
- Radio D/T enabled
- F1Q Start Kill and Long arming period
- F1Q power from BEC



- Programmed by SuperMagic 4.77 or later
- Redundant contacts on power switch
- Beep out of flight time at power up
- Optional beep during tow, flight or D/T
- Optional start Button for F1B/Q
- 10 Timer steps

WARNING. While most Black Magic timers are protected by a diode against connecting a battery the wrong way around, it is very important not to connect a battery to any other set of pins. Doing this can damage the timer and cause the function associated with those pint to no longer work. In particular do not connect a battery across any servo signal and positive pins or any of the hook or start pins.

For the F1Q timer using a motor controller with BEC it must be plugged in the servo 3 position.

On the back the inner row of pins starting on the RIGHT next to the programming jack

+ 5 Volts in

Ground in

Servo 1 signal

Servo 1 positive

Servol Ground

Servo 2 signal

Servo 2 positive

Servo2 Ground

Unlatch Switch / tension switch/ electronic hook

Hook Forward Switch/start switch F1B or F1Q

Switch common ground

+5 volts regulated for Hall Effect Switch – only used when switch is Hall Effect



Servo 3 signal – Motor Controller with BEC for F1Q

Servo 3 positive

Servo 3 Ground

Servo h signal – Hook Servo ONLY OR Impulse hook input

Servo h positive

Servo h Ground

Servo 4 signal -

Servo 4 positive

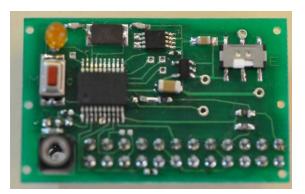
Servo4 Ground

Ground for Radio DT

positive regulated Supply for Radio DT

Signal for Radio DT

If the Timer is hook servo timer Servo h is the hook.



Set the hook Servo from the Hook screen. Start [i.e. closed] and Open position. The bunt timeout is the time in seconds the hook remains open after the unlatch tension threshold had been crossed back to latch. The hook will them relatch. Be sure to allow enough time for the line to come off on the regular launch.

The unlatch switch is closed when the line tension threshold is passed i.e. when it increases.

