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RC performance components

3rd Channel Engine Kill Switch

Introduction

Thankyou for purchasing the UberRC 3rd Channel Kill Switch, this kill switch is ideal for use on all RC cars that run a Petrol engine with a magneto Ignition and stop switch, ie Largescale 2 stroke based cars such as those used in: HPI Baja 5B, Losi 5ive-T, FG Marder etc etc. You also require a free 3rd channel on your radio gears transmitter often marked as AUX on the unit. This Kill Switches microprocessor constantly reviews the signals from the receiver for and glitches and the receiver power supply for sufficiently high voltage (min. ~ 4.7 volts). If the signals or the power supply fall under the level required for safe operation the module shuts the engine off by briefly closing the ignition via the integrated relay.

No More Runaways - Total Peace of Mind

Installation and connection

Place the Kill Switch module in your cars Radio Box and route the heat shrinked (black) cables to the engine stop switch. Expose a small amount of wire and connect each of the two cables, to a terminal of the stop switch; it makes no difference connecting to black or red polarity.

You can either solder to the existing connectors or use with the supplied connector plugs. In that case the original connectors must be cut and the new ones crimped on the cables. Plug the rx-connector of the module in the free 3rd or 4th channel of the receiver.

After turning your handset on, the servo travel for the selected channel must be set to assure that in one position of the controller on the transmitter the blue status LED is on (engine can be started), while the red LED is on with the controller in the opposite position (kill switch is activated, engine cannot be started).

LED Status display

Status	LED Indicator	Case/Display
Normal Operation	• Blue = On • Red = Off	Signal and power supply are ok
Signal Failsafe	• Blue = Off • Red = On	Signal faulty or too weak
Signal failsafe within the last 30 seconds	• Blue = On • Red = Blinking	Failsafe activated within the last 30 seconds
Battery failsafe	• Blue = Off • Red = Blinking rapidly	Voltage too low (below 4.7v)
Engine Stop	• Blue = Off • Red = Off	RX voltage supply interrupted

Features

This Kill Switch helps to protect your RC investment and gives you total peace of mind by using the following features:

- Engine stop with failsafe activation
- Engine stop via 3rd or 4th channel
- Engine when signal too weak
- Engine stop at faulty signal
- Engine stop when voltage of the receiver battery drops below ~ 4.7 volts
- Engine stop in case of complete loss of receiver voltage supply
- With status indicator to analyze disturbances occurred
- Compatible with all RC systems including Futaba HRS and Spectrum DX3R with 5.5ms frame rate
- Connectors for motor included
- Integrated reverse polarity protection for the module

Technical Spec

- Voltage range: 5V - 12V
- Power consumption at 6-volt operation:
Min 4mA - 46mA normal - Max 61 mA
- Operating temperature: -10 °C - +60 °C
- Dimensions (LxWxH): 18mm x 14mm x 12mm
- Weight: 20g.
- Micro mechanical relay
- Operation: ignition kill switch (relays)
- Monitoring principle: Microprocessor controlled signal and voltage measurement
- Display: status LED's red and blue