

Magnetic Toggle Switch for On-Board Electronics of RC Models

It safely switches the power current and is controlled by a **magnet (reed contact)**.

It is connected between the battery and the on-board electronics, most often between the battery and the motor controller.

Principle of Operation and Connection

- **Input (Power Supply):** Connect the battery (e.g. LiFe, LiPo, or NiMH) to the input terminals (+) and (-).
- **Output (On-Board Network):** Connect the output wires to the on-board network (e.g. to the controller or distribution board – PowerBox).
- **Control:** Place a small magnet over the sensor, which is the red component on the circuit board (reed contact). The switch turns on when the magnet is placed over the sensor and turns off when the magnet is placed over it again.

Basic Installation and Use

- **Switch Installation:** Install the switch inside the hull of the model, ensuring easy access from the outside while protecting it from impacts. If access to the reed contact is difficult due to its location, there are holes on the circuit board next to the sensor. These can be used to solder another sensor (reed contact) in parallel or to move the existing sensor to a more suitable location in the hull.
- **Connecting Wires:** Use sufficiently thick wires according to the power consumption of the motors, servos, and electronics, as the magnetic switch carries the full current from the battery. The installed terminals are designed for stripped wires. After inserting the wires into the terminals and tightening the screws, the wires will be securely fastened. The wires do not need to be modified or soldered! Use wires in the range of 16–26 AWG, corresponding to a conductor diameter of approximately 1.29–0.4 mm.
- **Initialization:** Connect the battery to the switch. Place the magnet over the reed contact to turn on the switch. The red LED will light up, indicating that current is flowing through the switch to the on-board network and that the model is powered on.
- **Safety:** Always make sure that your RC transmitter is switched on before turning on the RC switch. Then place the magnet over the reed contact to turn the switch on. When switching the system off, proceed in the opposite order. Always check whether the indicator (red LED) on the switch board is on or off before turning off the transmitter.

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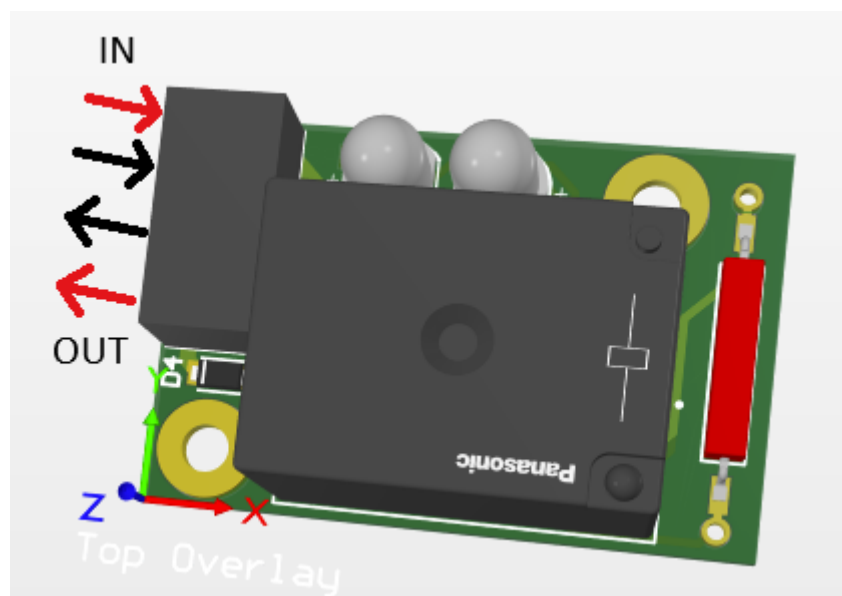
- **Warning:** The RC switch is not waterproof or water-resistant. Do not expose it to water. We recommend protecting the electronics with a protective coating or a suitable nano-protective spray.

Technical Parameters:

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|-------------------|--------------|
| • Supply Voltage | 7,4 - 11,1 V |
| • Standby Current | < 10 μ A |
| • Maximum Current | 10 A |

Installation in the Model: The mounting holes are 25 × 17 mm apart.

Wiring:



Optional Features

Two LEDs are shown in the picture. If you would like to have an indication that the battery is connected, you can install a second green LED with a 1 k Ω series resistor. The necessary preparation is already provided on the circuit board. Please keep in mind that installing the second LED will increase the standby current to approximately 20 mA.