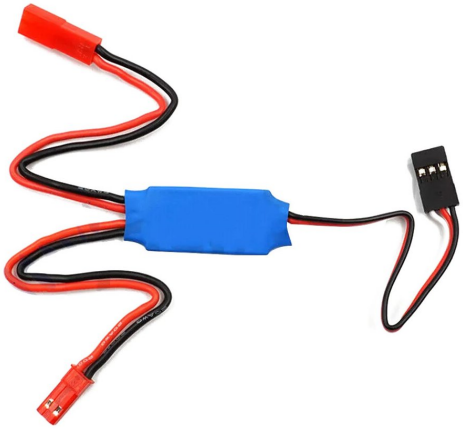
RC SWITCH 10A

User manual
Electronic switch controlled by a PWM signal



Read this manual carefully before first use and keep it for future reference.

www.rotorama.com

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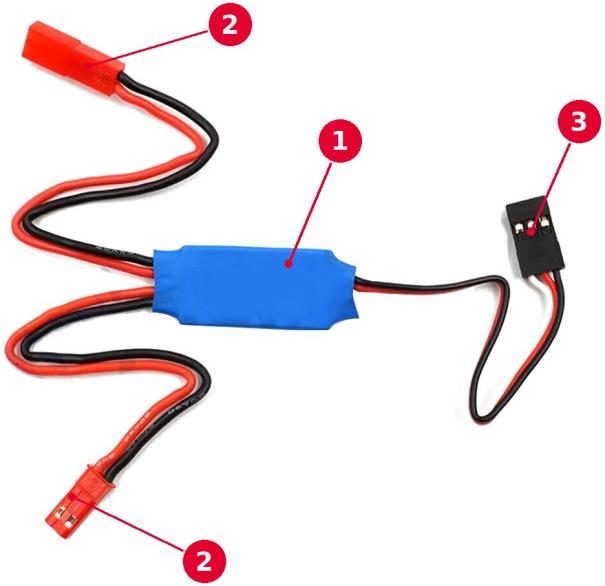
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1. Product description

1.1 What it is for

The RC Switch 10A is an electronic switch that turns other devices on and off according to the signal from an RC receiver or a flight controller (FC). It is suitable for switching LED lights, smoke generators, a video transmitter (VTX) or other model accessories.

You control the switch with any channel of your radio transmitter or with a PWM output of the flight controller. When the PWM control pulse width is **higher than 1800 µs**, the switch closes and connects the input and output JST connectors. When the signal value **drops below 1200 µs**, the switch opens. The switch supports voltages of 5–28 V and currents of up to 10 A.



① switch module · ② JST connectors (input and output of the switched circuit) · ③ servo control connector

1.2 Specifications and package contents

Product designation	RC Switch 10A
Switched voltage	5–28 V
Current rating	10 A
Closed (on)	PWM signal > 1800 µs
Open (off)	PWM signal < 1200 µs
Switch supply voltage	5 V (via the servo control connector)
Connectors	2× JST (input / output), 1× servo connector (control)
Weight	8 g including cables
Dimensions	approx. 15 × 35 × 5.5 mm
Package contents	1× RC switch

Not included in the package: the switched load (LED, smoke generator, VTX…), voltage source or battery, radio system, receiver, flight controller, and connecting or adapter cables.

2. Use

2.1 Safety

- Always connect and reconnect the switch **with the power disconnected** – disconnect both the model's battery and the source of the switched circuit.
- Do not exceed the switched voltage of **28 V** or the current of **10 A**. The switch does not change the voltage – the load receives the same voltage that you apply to the input and must be rated for it.
- Observe the polarity of the connectors. A short circuit or reversed polarity can permanently damage the switch, the load and the source, and with Li-Po batteries can cause a fire.
- Secure the switch and its cables so that they cannot get into the propellers or moving parts and so that the wires do not rub against sharp edges.
- Do not use the switch for functions on which flight safety depends (powering the flight controller, receiver, servos or drive system).
- Protect the switch from moisture, water and mechanical damage. Do not use it if the insulation or connectors are damaged.

2.2 Wiring

The markings ② and ③ correspond to the picture in Chapter 1.1.

1. Plug the **servo control connector** ③ into the output of the selected channel of the RC receiver, or into a PWM output of the flight controller. Observe the connector orientation – signal pin to signal pin. The switch also receives its 5 V supply through this connector.
2. Connect the **input JST connector** ② to the voltage source for the load (5–28 V).
3. Connect the **output JST connector** ② to the load.
4. Connect the model's power only after checking all connections.

※ The switch only connects the input and output connectors. The current drawn by the load must not exceed 10 A.

2.3 Radio transmitter or flight controller setup

- Assign a switch (usually a two-position one) to the selected channel in your radio transmitter.
- In the transmitter's channel monitor or in the flight controller configurator, check that the channel value is **higher than 1800 µs** in the “on” position and **lower than 1200 µs** in the “off” position. If necessary, adjust the channel end points (travel).
- When controlling from a flight controller, set the output as PWM according to the documentation of the firmware used and check the same values.

- Set the receiver's **failsafe** so that the load behaves safely when the signal is lost – decide whether it should stay on or switch off.

2.4 Function check

Before first use and after every change in wiring, toggle the switch several times between both positions and check that the load switches on and off reliably. During longer operation close to the maximum current, check that neither the switch nor the cables overheat.

2.5 Troubleshooting

Problem	Cause and solution
The load does not switch on	The channel value does not exceed 1800 µs – increase the channel travel. Check the orientation of the servo connector and the presence of the 5 V supply on the receiver or FC output.
The load does not switch off	The channel value does not drop below 1200 µs – adjust the channel travel. Check the failsafe setting.
The load does not work although the switch switches	Check the source on the input, the polarity and the connection of the input and output JST connectors.
The switch or cables get warm	The load current is too high or there is a poor contact in a connector. Reduce the load below 10 A and check the connectors.

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.com

3.2 Disposal of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

4. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 3.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.