RC switch 2A 3-5V

Electronic switch controlled by a PWM signal
User manual



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

Rotorama, s.r.o. · www.rotorama.com

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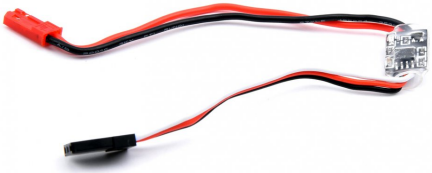
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1. Product description

1.1 Purpose

The RC switch turns other devices in your model on and off according to the signal from the RC receiver. You can control it with any channel of your radio transmitter or with a PWM output of the flight controller (FC). This lets you remotely switch, for example, the model's lighting or another small device powered at 3–5 V.

The switch has no connector of its own for a battery. The switched voltage is supplied through the servo connector from the receiver (or from the flight controller). When the PWM signal is higher than 1500 µs, the switch closes and sends the voltage to the output with the JST connector. When the signal drops below 1500 µs, the switch opens. An LED on the switch indicates that it is on.



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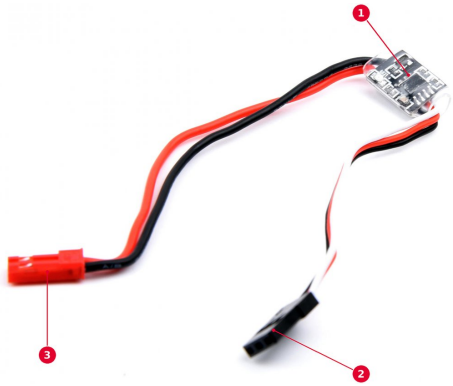
1.2 Specifications and package contents

Product designation	RC switch 2A 3-5V
Switched voltage	3–5 V
Current rating	2 A
On	PWM signal higher than 1500 µs
Off	PWM signal lower than 1500 µs
On indication	LED
Input	servo connector (PWM signal and power)
Output	JST connector
Weight	3 g
Package contents	1× switch

Not included: receiver, radio transmitter, flight controller, battery, the switched device, connecting cables and adapters.

2. Use

2.1 Parts and wiring



① switch with LED ② servo connector ③ output with JST connector

① **Switch** with an LED that indicates the on state.

② **Servo connector** (three-wire cable) – input for the PWM control signal and, at the same time, supply of the switched voltage from the receiver or flight controller.

③ **Output with JST connector** – switched voltage for the connected device.

▶ Wiring procedure

① Switch off the model and disconnect the battery.

② Plug the servo connector ② into the output of the selected channel on a PWM receiver, or into a PWM output of the flight controller. Mind the orientation of the connector: black wire to the − (GND) pin, red wire to + and the white signal wire to the signal pin (S).

③ Connect the device to the JST output ③ and observe the polarity: red wire +, black wire −.

④ Make sure the device is rated for the voltage present on the servo connector and that its current draw does not exceed 2 A.

※ The switch does not change the voltage – it passes the voltage supplied through the servo connector to the output. The voltage on the receiver or flight controller outputs must be within 3–5 V.

※ The device draws its current from the receiver power supply (BEC). The supply must handle the receiver, servos and the device at the same time – overloading it can cause a receiver brownout and loss of control of the model.

2.2 Setting up the control channel

On your radio transmitter, assign a switch to the channel the RC switch is connected to. Check the channel value in the channel monitor of the transmitter: in the “off” position the signal must be clearly below 1500 µs, in the “on” position clearly above 1500 µs. Do not use values close to 1500 µs – the switch could turn on and off unexpectedly.

When controlling the switch from the flight controller (FC), configure the respective output as a PWM output in the FC firmware and assign to it the channel or function that should control the switch. The procedure differs between firmwares – follow the documentation of your firmware.

Decide which state the switch should be in when the signal is lost (failsafe), and set up the receiver failsafe so that the switch channel goes to a safe state.

2.3 Function check

① Switch on the radio transmitter first, then the model.

② Flip the transmitter switch to the “on” position – the LED on the RC switch lights up and the connected device turns on.

③ Flip the transmitter switch back – the LED goes out and the device turns off.

④ Repeat this check before every use of the model.

2.4 Safe use

- Do not exceed the current rating of 2 A or the voltage range of 3–5 V. Do not connect the switch directly to the model's battery.
- Do not use the switch to control any device whose unexpected switching on or off could endanger people or property.
- Protect the switch from moisture, short circuits and mechanical damage. Do not pull on the cables and secure them in the model so that they cannot get into rotating parts.
- Always disconnect the model's battery before wiring or making changes.
- The product contains small parts – keep it out of the reach of children.
- When operating a model in which the switch is used, follow the regulations of the country in which you operate the model – the law of that country is decisive.

2.5 Troubleshooting

Problem	Cause and solution
LED does not light up, device does not turn on	The servo connector is reversed or plugged into a different channel; the receiver is not powered; the channel value does not exceed 1500 µs – check the channel monitor.
Switch turns on and off by itself	The channel value is close to 1500 µs – set the switch end points further away from this value. Check the range and the failsafe settings.
LED is on, but the device does not work	Reversed polarity on the JST output, faulty device, or the device requires a different voltage.
Receiver restarts when the device turns on	Overloaded receiver power supply (BEC) – reduce the current draw of the device or use a more powerful supply.

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 Product conformity

CE

- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorama.cz.
- **Product identification:** the type designation (RC switch 2A 3-5V) is stated in this manual and on the proof of purchase.

3.3 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.