Buzzer for FC

with JST cable
User manual



Always disconnect the battery from the drone before connecting the buzzer. The buzzer connects exclusively to the flight controller (FC).

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1. Product description

1.1 What it is for

The buzzer (beeper) is a small acoustic signalling device for FPV drones. It is an invaluable tool when searching for a lost drone when no lawn is low enough – by its sound you can easily find the drone even in tall grass or bushes.

The buzzer connects **directly to the flight controller (FC)**, which controls it and, depending on its settings, uses it to signal selected states – for example beeping on command from the radio, signal loss or low battery voltage. **Connecting the buzzer directly to a PWM channel of the receiver is not possible.**



Buzzer with a cable terminated by a JST connector

1.2 Specifications and package contents

Power supply	5 V
Connector	JST, 2-pin
Cable length	95 mm
Size	9 × 4.5 mm
Package contents	1× buzzer
Not included	flight controller (FC), mating JST connector on the FC side, soldering and mounting material
Product designation	Buzzer for FC with JST cable

2. Use

2.1 What you will need

- a drone or flight controller (FC) with a buzzer output – the pads or connector are usually marked **BZ+** and **BZ−** (or **BUZ+** / **BUZ−**); see the documentation of your flight controller for the exact location,
- a mating JST connector and a soldering iron if the flight controller has no matching connector (solder pads only),
- double-sided adhesive tape or a cable tie for mounting,
- a computer with the flight controller configurator (e.g. Betaflight Configurator).

2.2 Connection step by step

① Disconnect the battery from the drone. Never work on the electronics while powered.

② Locate the buzzer output on the flight controller (BZ+ / BZ−).

③ Connect the buzzer with the correct polarity: **red wire to BZ+**, **black wire to BZ−**. If the flight controller has no matching connector, solder a mating JST connector to the pads. Do not connect the buzzer to a PWM output of the receiver or directly to the battery – it is designed for a 5 V supply.

④ Mount the buzzer on the frame so that the opening in the housing is not covered and the cable does not reach into the propellers.

⑤ Connect the battery and check the function (see Chapter 2.3).



JST connector: red (+), black (−)

2.3 Beeper settings and finding the drone

When the buzzer beeps is determined by the flight controller settings. In Betaflight Configurator the procedure is usually as follows:

- On the *Modes* tab, assign the **BEEPER** mode to a switch on your radio. When you flip it, the buzzer starts beeping – this is how you find the drone after landing or a crash.
- In the *Beeper Configuration* section, select which events the buzzer should signal, for example signal loss (*RX_LOST*) or low battery voltage (*BAT_LOW*).

- After the battery is connected, the buzzer usually beeps briefly – this is the normal start-up signal of the flight controller.

※ The buzzer is powered from the flight controller. It only beeps while a battery is connected to the drone. If the battery is disconnected in a crash, the buzzer does not beep.

If the buzzer does not beep, check the polarity, the connection to the correct output and the settings in the configurator.

2.4 Safety and care

- Always disconnect the battery from the drone before connecting or disconnecting the buzzer.
- Observe the polarity and connect the buzzer only to the flight controller output intended for a buzzer.
- Do not hold the buzzer to your ear while it is beeping.
- Protect the buzzer from moisture and mechanical damage; route the cable away from the propellers.
- The product is intended for persons aged 14 and over.
- When flying, follow the regulations for drone operation. The law of the country in which the drone is operated is decisive.

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.cz

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:** type designation (Buzzer for FC with JST cable). Due to its small size, the product does not bear a rating label; the designation is given on the packaging or in the accompanying document.

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.