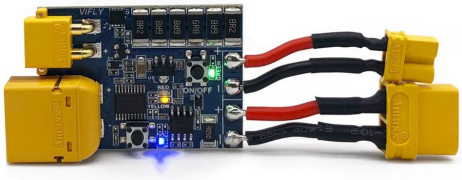
ROTORAMA

ShortSaver 2

VIFLY – smart smoke stopper
User manual



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

www.rotorama.com

Contents

1. Safety instructions

2. Product description

2.1 What the product is for

2.2 Package contents

2.3 Specifications

2.4 Parts

3. Operation

3.1 Connecting and switching on

3.2 Selecting the 1 A / 2 A current threshold

3.3 Trip time (sensitivity) setting

3.4 Receiver binding

3.5 LED indication

4. Troubleshooting, maintenance and storage

5. Information for the EU and Czech Market

6. Warranty and rights arising from defective performance

1. Safety instructions

The ShortSaver 2 is an aid for safely connecting a battery to a newly built or repaired model for the first time. It reduces the risk of damaging the electronics in the event of a short circuit or wiring mistake, but it **does not replace a careful check of the wiring**.

- Before connecting, check the wiring and solder joints visually and with a multimeter (short circuit between + and − at the power input).
- Always **remove the propellers** when working on the model. The ShortSaver 2 is not intended for flying – it is used on the workbench only.
- Use only batteries within the input voltage range given in chapter 2.3 (2S–6S). A 1S battery is not sufficient to power the product.
- Observe correct polarity and do not use damaged connectors or cables.
- The printed circuit board has no housing. Do not place it on metal or other conductive objects and protect it from moisture, dust and mechanical damage.
- Do not leave the product or the connected model powered unattended. Disconnect the battery when you have finished working.
- Handle Li-Po and LiHV batteries according to their manufacturer's instructions. A charged battery must not be mechanically damaged or swollen.
- This product is not a toy. Keep it out of the reach of children.

※ The information in chapters 5 and 6 describes the situation in the Czech Republic. If you use the product in another country, follow the regulations of the country in which you operate it (in particular the rules for handling electrical waste).

2. Product description

2.1 What the product is for

The VIFLY ShortSaver 2 (also sold as ShortSaver V2) is an electronic fuse (eFuse) smoke stopper. It is connected between the battery and the model. If it detects a short circuit or a current draw above the selected threshold, it **cuts off the power completely** – unlike an automotive light bulb or a resettable fuse (polyfuse), which only limit the current and still let leakage current through.

It is used mainly when connecting a battery to a newly built drone or model for the first time and when testing components. The output can be switched on and off manually with a button, which makes receiver binding easier.

2.2 Package contents

- 1× VIFLY ShortSaver 2 with XT60 and XT30 input connectors and output cables with XT60 and XT30 connectors
- printed manufacturer's manual (in English)

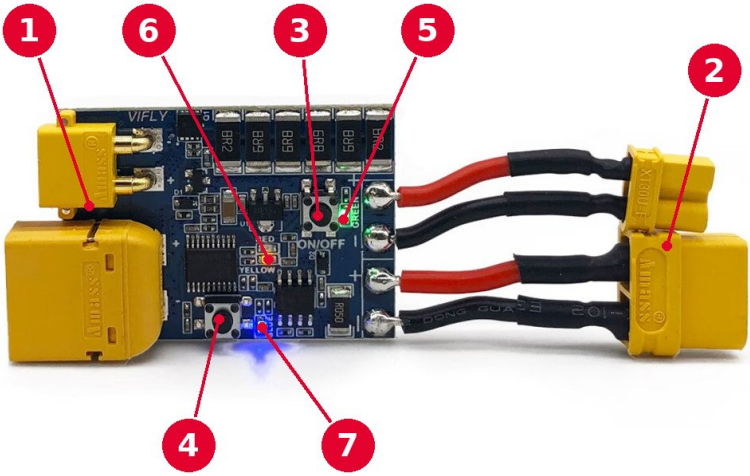
Not included: battery and charger.

2.3 Specifications

Parameter	Value
Designation	VIFLY ShortSaver 2
Size (L × W × H)	48 × 30 × 10 mm (power cable not included)
Connector	XT30 & XT60 (input and output)
Switchable current threshold	1 A / 2 A
Trip time	5 ms (short circuit), 20 ms (over-current)
Input voltage	7–25 V (2S–6S)

※ Data according to the manufacturer's manual. The trip time depends on the selected sensitivity (chapter 3.3).

2.4 Parts



VIFLY ShortSaver 2 – parts

① XT60 / XT30 input – battery connection
② XT60 / XT30 output – model connection
③ POWER ON/OFF button – switches the output on and off
④ Current switch button – 1 A / 2 A threshold
⑤ Green LED (GREEN) – power on
⑥ LED marked RED / YELLOW – ready, sensitivity, protection
⑦ Blue LED – 2 A current threshold

3. Operation

3.1 Connecting and switching on

1. Remove the propellers from the model.
2. Plug the battery into the ShortSaver 2 input (XT60 or XT30) first. When the **yellow LED** is on, the ShortSaver 2 is ready to work.
3. Short press the 1A / 2A button ④ to select the current threshold (chapter 3.2).
4. Connect the model to the ShortSaver 2 output (XT60 or XT30).
5. Short press the POWER ON/OFF button ③. If the **green LED** is on, your build is normal.
6. If the green LED is off and the **red LED** is on, your device has a short circuit or over-current and the ShortSaver 2 has entered overload protection. Disconnect the battery and fix the fault (chapter 4).
7. Short press the POWER ON/OFF button to turn the power on or off at any time.

3.2 Selecting the 1 A / 2 A current threshold

Short press the 1A / 2A button ④ to switch between the 1 A and 2 A threshold. If the blue LED ⑦ is on, the 2 A threshold is selected; if it is off, the 1 A threshold is selected.

The manufacturer recommends the **1 A** option for most RC builds. Select 1 A for small builds with more sensitive electronics and 2 A for large builds.

3.3 Trip time (sensitivity) setting

Long press to enter the trip time setting mode. Short press to change between the levels and long press again to save the setting. The selected level is indicated by the number of yellow LED blinks:

Yellow LED	Sensitivity
1 blink	high sensitivity for low current builds (default)
2 blinks	medium sensitivity for medium current builds
3 blinks	low sensitivity for high current builds

※ The manufacturer's manual describes this procedure directly after the POWER ON/OFF button, but does not explicitly state which button opens the setting mode.

3.4 Receiver binding

Some receivers enter binding mode when the bind button is held while power is applied, others when the power is switched on and off repeatedly. The POWER ON/OFF button ③ lets you switch the model's power on and off without unplugging the battery. For the binding procedure, see the receiver manual.

3.5 LED indication

LED	Status
Green on	power on
Green off	power off
Red off	normal
Red on	short circuit or over-current – protection active
Blue off	1 A current threshold
Blue on	2 A current threshold
Yellow on	ready to work
Yellow blinking	selected sensitivity (chapter 3.3)

4. Troubleshooting, maintenance and storage

Problem	Cause and solution
The red LED lights up after pressing POWER ON/OFF	Short circuit or over-current in the model. Disconnect the battery, check the solder joints, polarity and wiring, and measure the input with a multimeter.
Protection trips on a large model although the wiring is correct	The idle current of the model is close to the selected threshold. Select the 2 A threshold (chapter 3.2) or a lower sensitivity (chapter 3.3).
Protection trips during a motor test	Spinning motors draw more than the selected threshold. Test the motors without the ShortSaver 2, with the battery connected directly and the propellers removed.
No LED lights up	The battery voltage is below the lower limit of the input voltage (e.g. 1S), the battery is discharged or the connector is not plugged in.

Maintenance and storage

- Disconnect the battery and the model after use.
- Keep the connectors clean and undamaged; replace a damaged cable or connector.
- Store in a dry place, in an antistatic bag and away from metal objects.

5. Information for the EU and Czech Market

5.1 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

5.2 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 (VIFLY ShortSaver 2) is given on the product packaging; the VIFLY logo is marked on the printed circuit board.

5.3 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.

6. 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 5.1.
- 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.