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User manual of COSMO | G3+ controller.

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1. GENERAL INFORMATION

COSMO | G3+ is a 4-channel remote control, designed for remote control receivers brand MOBILUS (radio remote controls for roller shutters, awnings, blinds / control modules for motors without radio communication module / ON / OFF modules).

- Support of 4 channels.
- Support 4 channel groups.
- Bi-directional communication - the opportunity to receive additional feedback information from receivers.

Please refer to the instruction manual that tells how to safely use the device. You are solely responsible for any damages resulting from the using the device in a manner inconsistent with its intended purpose. The manufacturer accepts no responsibility for damage or injury caused by misuse, improper handling and running.

2. CONTENTS OF THE PACKAGE

The packaging contains the following items:

- remote **COSMO | G3+**,
- 1 CR2450 3 V battery in remote,
- user manual.

3. TECHNICAL PARAMETERS

- 4 channels remote
- Dynamic code
- FSK modulation
- 868 MHz
- Bi-directional communication
- 1 CR2450 3 V
- Dimensions: 75 x 45 x 14 mm / waga: 30 g

4. POWER SUPPLY

The device is powered by single battery **CR2450**. In order to change the battery, open housing of the remote.

1. Between the lower and the upper part of the housing slide flat, rigid tool in the position shown in **Fig. 4a.**
2. Then, slowly and firmly spread apart the two housing parts **- Fig. 4b.**
3. In the lower part of the housing is a battery holder CR2450 3 V **- Fig. 4c.**
   Replace the old battery with a new one, pay attention to the polarity.
4. Close the remote control.

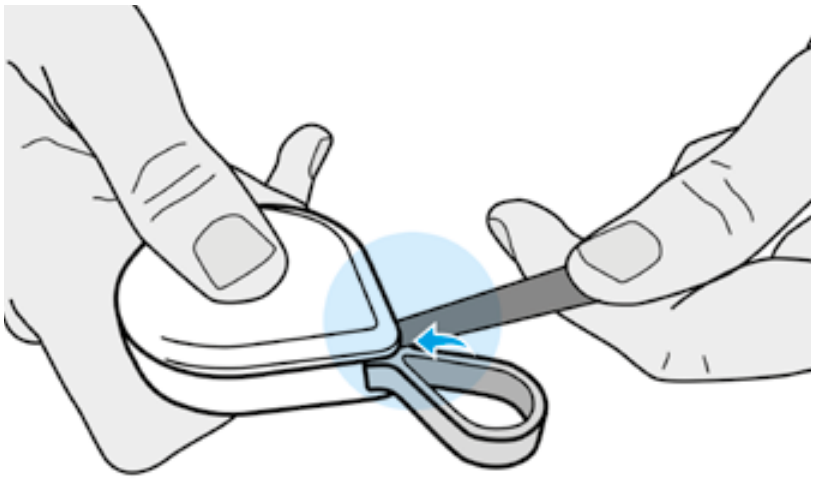


Fig. 4a

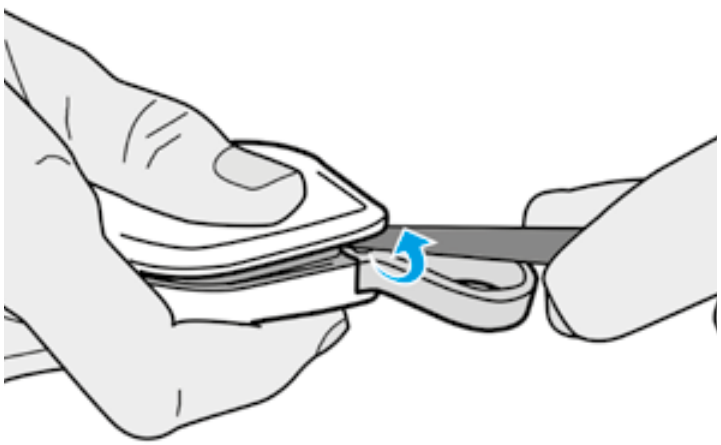


Fig. 4b

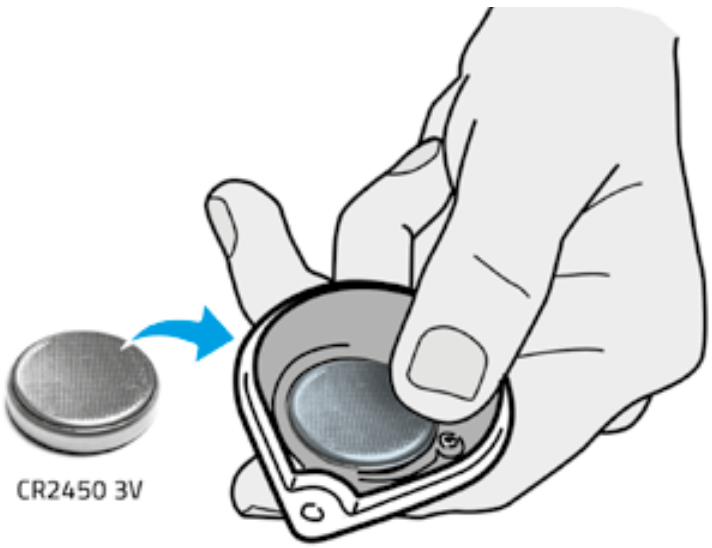
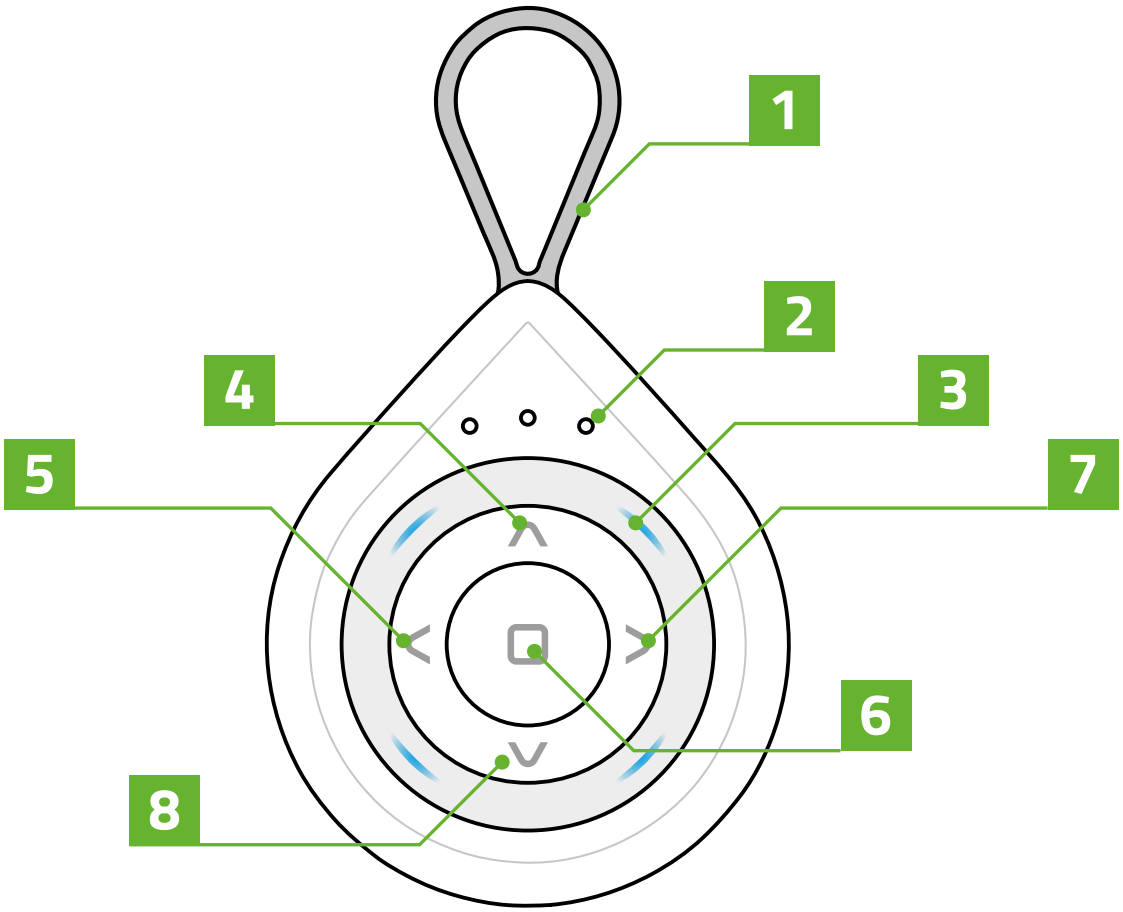


Fig. 4c

5. DESCRIPTION OF THE REMOTE CONTROL



1. Pendant.
2. LED's indicating the selected channel.
3. LED's indicating radio transmission (blue, red).
4. Control button **UP** (**TURN ON** for modules **ON/OFF).**
5. Navigation channels button **LEFT**.
6. **STOP** button (**TURN ON/TURN OFF** for modules **ON/OFF; UP/STOP/DOWN** in case of the modules operating in steps mode).
7. Navigation channels button **RIGHT**.
8. Control button **DOWN** (**TURN OFF** for modules **ON/OFF).**

6. READING OF REMOTE INTO THE MOTOR'S MEMORY

WARNING! Do not program the remote control when the shutter is in the extreme position (top or bottom). Each program and changes of motor's operation directions are confirmed by two micro-movements of the driver.
Failure to comply with these rules may result in damage the blinds (inhaled by the housing).

1. Press the **LEFT / RIGHT** to select the appropriate channel.

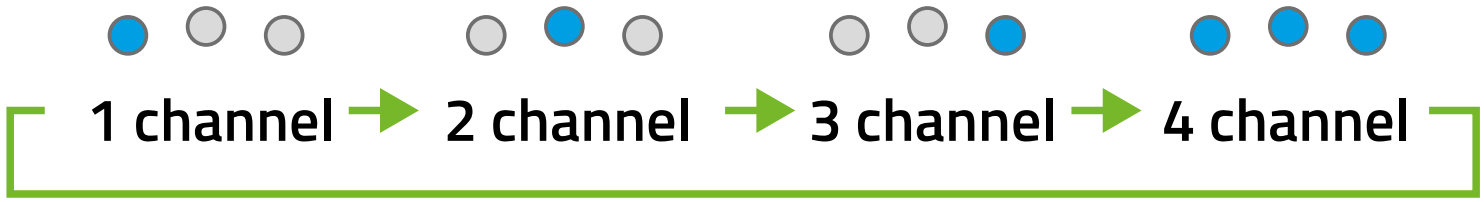


Fig. 6a

Enter **MOBILUS motor, serie R** in the PROGRAMMING MODE OF MASTER REMOTE:
- press for 5 seconds **PROGRAMMING BUTTON** in the motor - **Fig. 6b;**
- or double turn off and turn on the power supply od the motor - **Fig. 6c;**

The confirmation of properly performed operation will be two micro-movements of the motor driver - **Fig. 6d.**

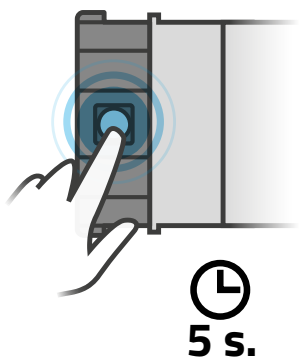


Fig. 6b

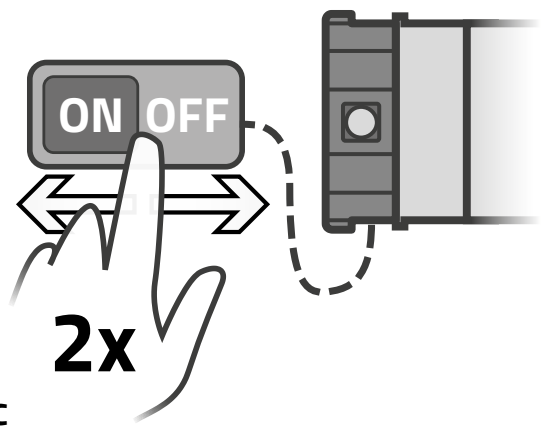


Fig. 6c

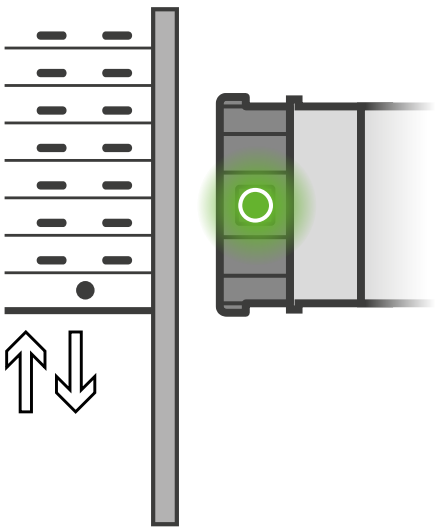


Fig. 6d

WARNING! The first remote control readed into the receiver is a remote control MASTER. It allows you to operate motor and enter it in the PROGRAM MODE OF OTHER REMOTES.

3. On the remote control simultaneously press the **STOP** and **UP** - **Fig. 6d.** 4 LEDs start blinking – **Fig. 6e.** Hold the buttons until the motor driver will perform two micro-movements. The remote control has been readed into the motor.

Fig. 6d

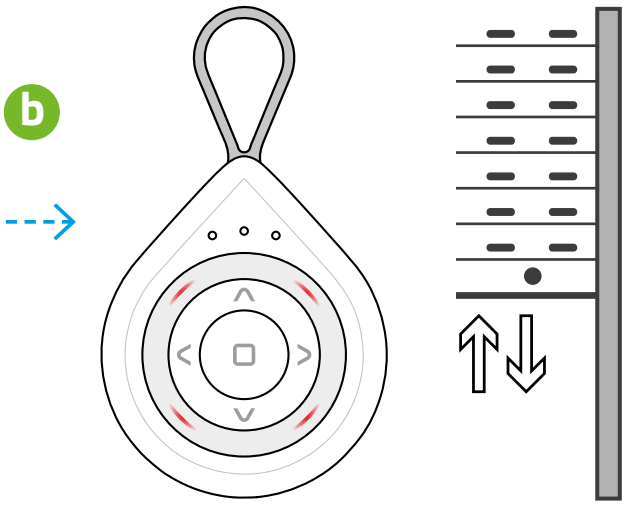


Fig. 6e

7. READING IN OTHER REMOTE

1. On the **MASTER** remote control simultaneously press the **STOP** button and **UP** - **Fig. 7a.** 4 LEDs start blinking - **Fig. 7b.** Hold the buttons until the motor driver will perform two micro-movements confirming the input of the motor in the PROGRAM MODE.

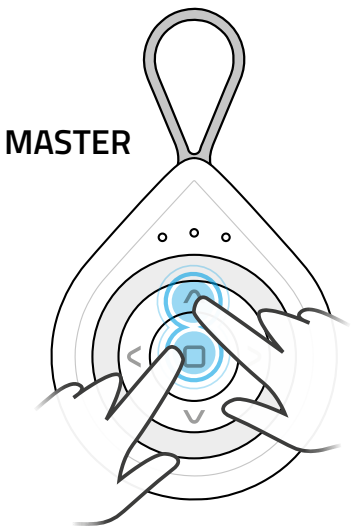


Fig. 7a

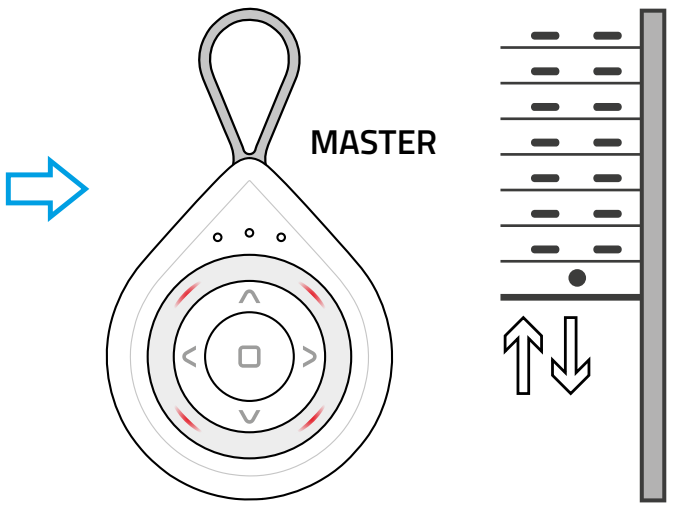
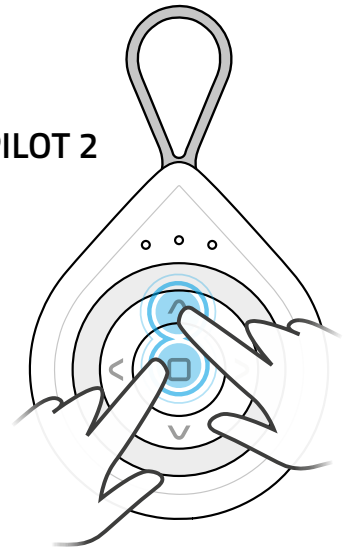
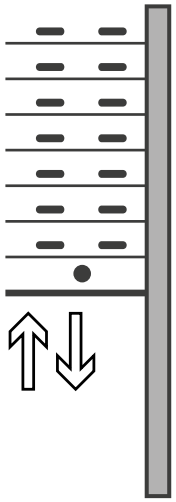


Fig. 7b

2. On the second remote control, you want to program, press the **STOP** and **UP** - **Fig. 7c.** Hold the buttons until the motor driver will perform two micro-movements - **Fig. 7d.** Another remote was loaded into the motor.



rys. 7c



rys. 7d

Within 20 sec. you can proceed to load the next remote. However, if no action of programming at this time doesn't happen, motor automatically returns to the OPERATING MODE. You can expedite return to the OPERATING MODE manually using the remote control MASTER. In this case, press the button on the **STOP** and **UP** and hold more than 5 seconds. In both cases, return to the OPERATING MODE will be confirmed by two micro-movements of the driver.

8. BI-DIRECTIONAL COMMUNICATION

Remote control **COSMO | G3**+ enables bi-directional exchange of information with the receiver / receivers (sends and receive messages).
This feature allows you to control the state of blinds, check whether they have been properly lowered or raised as to whether there is damage to be checked (eg. due to interference by third parties).
Correct functioning of bidirectional communication requires:
- use of the receivers with bidirectional communication,
- programming one channel only for one receiver,
- the correct channel configuration - setting for bidirectional communication channel,
- ensure seamless communication of the remote control with the receiver.

Receivers supporting the bidirectional communication: **MOBILUS: M35 _ER_, M45 _ER_.**

9. BI-DIRECTIONAL COMMUNICATION - ACTIVATION / DISACTIVATION

1. Select the channel for which you want to enable / disable bidirectional communication.
2. Press the buttons STOP and LEFT and hold them for 5 seconds until 4 LEDs light up signaling radio transmission. Blue color -bidirectional communication enabled - **Fig. 9a.** Red - bidirectional communication disabled - **Fig. 9b.**

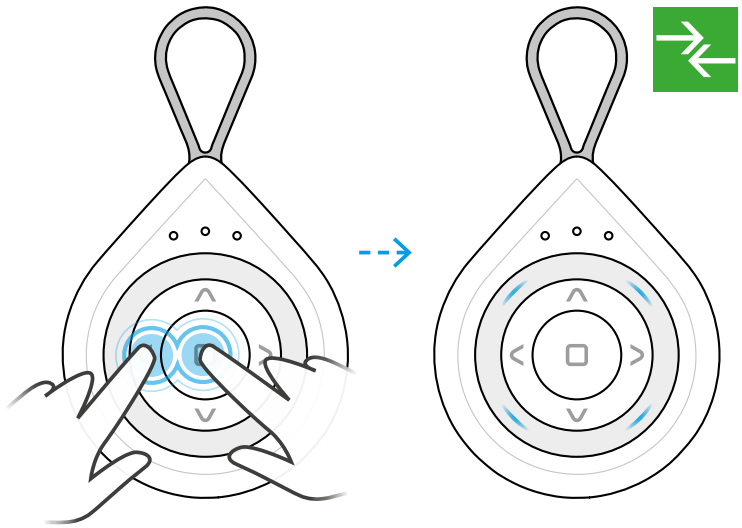


Fig. 9a

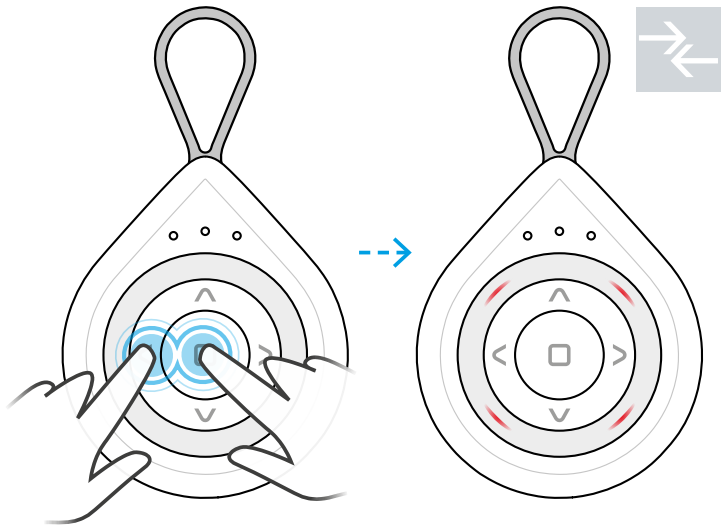
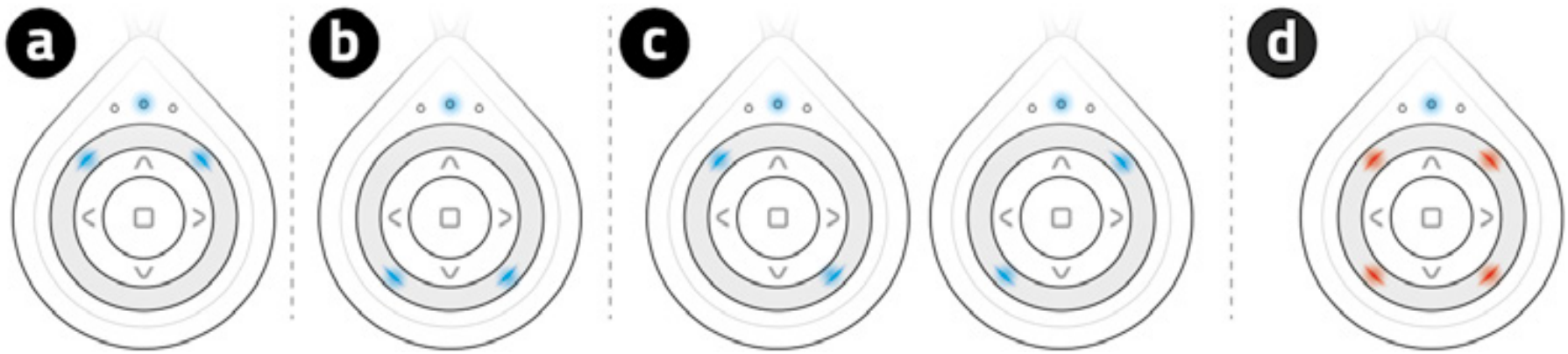


Fig. 9b

10. BI-DIRECTIONAL COMMUNICATION - READING OF POSITION

As long as bi-directional communication is enabled, the remote control **COSMO | G3+** will expect to send information about the state from the receiver. After receiving feedback on the remote will turn on the LEDs. Due to the battery consumption waiting time for feedback has been limited to 20 seconds.



a - upper LEDs blink in blue - blind / gate is located in the top position.
b - lower LEDs blink in blue - blind / gate is located in the lower position.
c - LEDs blink diagonally in blue - the blind is located in the area between the upper and lower limit switch.
d - top and lower LEDs blink red light - the additional sound signal - error occurred - blind encountered an obstacle.

It is possible to query the receiver about its current status. Please select the channel and press **STOP**. The remote will send a question to the receiver. Upon receipt of the response it displays its status.

11. CHANGE OF MOTOR'S OPERATION DIRECTION

After loading the remote control to the motor check that the buttons **UP** and **DOWN** correspond to lifting and lowering the blinds - **Fig. 11a.** If not, press simultaneously buttons **STOP** and **DOWN** and hold them for about 5 seconds on the remote control any loaded to the motor. The confirmation of correctly performed operation are two micro-movements of the driver - **Fig. 11b.** The motor changes the direction of the work on the correct - **Fig. 11c.**

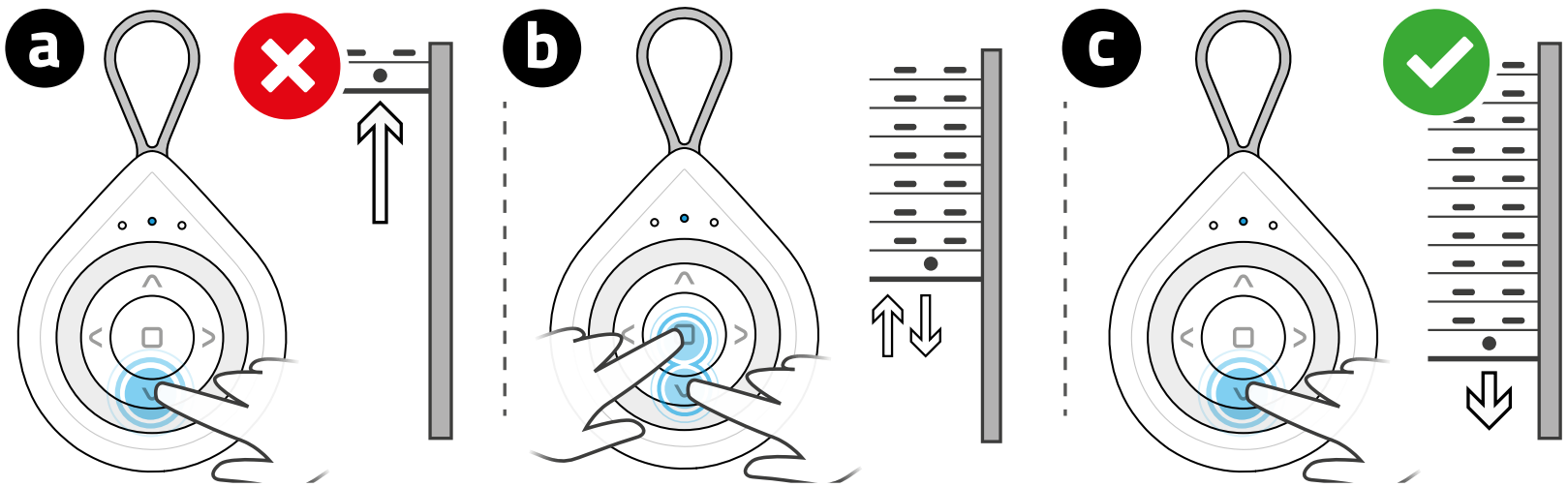


Fig. 11

WARNING ! You can change the direction of the work of motor for **MOBILUS** drives with electronic limit switches only before setting the upper and lower limit switches. You can change the direction of work for the **MOBILUS** motors with mechanical limit switches at any time.

12. ENVIRONMENTAL PROTECTION

This appliance is marked according to the European Directive on Waste Electrical and Electronic Equipment (2002/96/EC) and further amendments. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. It shall be handed over to the applicable collection point for the waste electrical and electronic equipment for recycling purpose. For more information about recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

13. NOTES

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