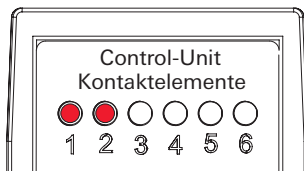


Roto E-Tec Control | Control Unit

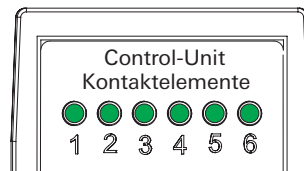


Operation

1. Connect the contact element (max. six conductors) to the Control Unit in any configuration via the terminals.
2. Remove the magnet from the contact element (e.g. by opening the window).
3. Switch on the Control Unit by briefly pressing the button. The current battery status is displayed.



Low battery voltage
LED indicator: 2x red



High battery voltage
LED indicator: 6x green



INFO

If the battery status is red, replace the batteries as soon as possible.

4. The Control Unit detects that the contact element is not actuated (missing magnet).
5. After two beeps, place the magnet on the contact element (e.g. by closing or locking the window). The Control Unit determines the conductor assignment and the actuated state.



INFO

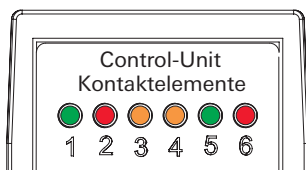
If the contact element is not actuated within one minute, the Control Unit will switch off. Restart the measurement by pressing the button. The Control Unit starts by checking the battery status (step 3).

MVS-C, concealed

After two beeps, place an uninstalled magnet directly on the contact element. This triggers the external field.

6. Three beeps signal the end of the measurement. The detected conductor assignment of the contact element is visually displayed for five seconds.

Example



Red = N/O contact (line contact)
 Green = N/C contact (external field)
 Orange = sabotage cable

7. Another beep signifies the switch to test mode. Open and close the window. Visual and acoustic signals are generated to indicate different switching states of the contact element.

Display of the switching states



INFO

In this mode, the Control Unit switches off automatically after one minute. A new measurement can be started by pressing the button. The Control Unit starts by checking the battery status.

Red = N/O contact
 Green = N/C contact
 Orange = sabotage cable (MVS-B, MVS-C)
 = joint (MTS)
 Off = no connection

MTS contact element

Window open = LEDs: 1x orange, 1x green, short beeps

Window locked = LEDs: 1x orange, 1x red, continuous sound

Contact elements (MVS-B; MVS-C, screwed-on; set without VdS)

Window open = LEDs: 2x orange, no sound

Window locked (line contact) = LEDs: 2x orange, 2x red, continuous sound



INFO

The set without VdS does not show any orange-coloured LEDs as there are only two cables.



INFO

MVS-C, screwed-on

If acoustic or visual signals other than those described above are generated, this means that the external field has been triggered. In this case, check the distance between the magnet and the contact element.

MVS-C contact element, concealed

Window open = LEDs: 2x orange, 2x green, no sound

Window locked (line contact) = LEDs: 2x orange, 2x green, 2x red, continuous sound

Window locked (external field triggered) = LEDs: 2x orange, 2x red, short beeps

Changing the battery

1. Open the battery compartment cover.

2. Remove and dispose of the battery.

**ATTENTION****Environmental pollution due to incorrect disposal!**

Leaking battery acid may pollute the environment.

- ▶ Do not dispose of the battery in household waste.
- ▶ Observe the national regulations on the disposal of batteries.

3. Insert a new battery (type: 9 V block).

Technical data

Technical data	
Dimensions (L x W x H)	112 x 65 x 19 mm
Weight	190 g
Housing colour	Grey
Housing material	ABS
Housing	Handheld housing with belt clip
Power supply	1x 9 V block battery
Battery life	At room temperature of 20 °C At least 270 measurements
Operation	Operation using a single button
Signalling	Visual (3-colour LED) and acoustic (buzzer)
Measurement inputs	6 terminals
Measurements	Conductor assignment and performance test of magnetic switches with N/O, N/C and changeover contacts

CE conformity due to directives:

- 2014/30/EU Electromagnetic Compatibility (EMC)
- 2011/65/EU (RoHS)
2011/65/EU (RoHS II)
2015/863/EU (RoHS III)

Stipulated use

The E-Tec Control | Control Unit is a test device for the window manufacturer. It is designed to check the performance of the wired contact elements in production or at the end customer.

One contact element can be connected to each individual test device.

General information

- ▶ Do not place on heat-sensitive surfaces.
- ▶ Do not expose to direct sunlight.
- ▶ Do not place any ignition sources on or next to the product.

Handling batteries incorrectly poses an immediate risk of death or serious injuries!

Handling batteries incorrectly can lead to hazardous situations or property damage.

- ▶ Store batteries out of reach of children and pets, as they might play with the batteries and could swallow them.
If a battery has been swallowed, consult a doctor immediately.
- ▶ Do not expose batteries to moisture, fire or high temperatures.
- ▶ Avoid connecting the positive (+) and negative terminals (–) (for example avoid wrapping the battery in aluminium foil). Risk of short-circuit!
- ▶ Do not recharge or open batteries.
- ▶ Use only the type of batteries specified in these instructions.
- ▶ Do not throw batteries into open flames. Risk of explosion!

Disposal

Electronic waste

Disposal of electronic waste in accordance with the legal provisions of the individual countries, for instance in accordance with EU directives (2002/95/EC: Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment, RoHS and 2002/96/EC: Directive on waste electrical and electronic equipment (WEEE)).

According to the Federal Electrical and Electronic Equipment Act (ElektroG) in Germany, waste electronic equipment must not be disposed of in household waste; it must be taken to an appropriate disposal site.



Batteries

Disposal of batteries in accordance with the legal provisions of the individual countries, for instance in accordance with EU directives (2006/66/EC: Directive on batteries and accumulators and waste batteries and accumulators).

According to the Battery Ordinance (BattV) in Germany, used batteries must not be disposed of in household waste; they must be taken to an appropriate disposal site.



Taking back waste electronic equipment

Waste electronic equipment can be returned to Roto Frank GmbH (the sender is responsible for the cost). The company will dispose of it free of charge and ensure that the waste electronic equipment is recycled correctly.

Please note: before shipping, remove batteries and dispose of them correctly.

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