

**VarioTec**  
**28 120.0001**

**e l e r o**  
Sun Shading Solutions **Nice**



**(EN) Operating instructions (translation)**  
Please keep these instructions in a safe place!

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## Safety instructions



**Warning!**



### Important safety instructions!

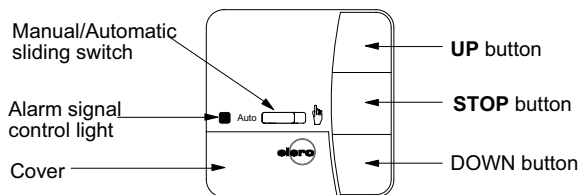
**Always observe the following instructions.**

#### Risk of injury by electric shock.

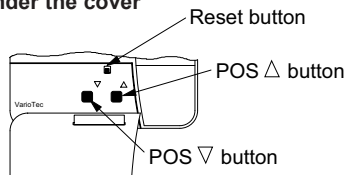
- All terminal connections to a 230 V network must be made by an authorised electrician.
- Before assembly, always disconnect the mains lead from the power supply.
- The provisions of the local public utilities and stipulations for wet and damp rooms in accordance with VDE 100 must be observed during system installation.
- For use in dry rooms only.
- Use unmodified **elero** original parts only.
- Keep persons away from the systems guide track.
- Keep children away from controls.
- Always comply with national stipulations.
- If the system is controlled by one or more devices, the system guide track must be visible during operation.
- Only cables with sufficient electric strength may be used to connect control cables (protective low voltages).
- The equipment contains small parts that could be swallowed.

## Explanation of displays and buttons

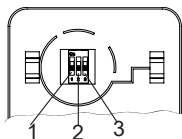
### Explanation of displays



### Buttons under the cover



### Encoding switch (located on back of device)



- |                         |                                  |
|-------------------------|----------------------------------|
| <b>1 Upper position</b> | → Alarm signal function OFF.     |
| Lower position          | → Alarm signal function ON.      |
| <b>2 Upper position</b> | → Group controller               |
| Lower position          | → Driver controller              |
| <b>3 Upper position</b> | → Venetian blind mode            |
| Lower position          | → Roller shutter/<br>awning mode |

## General information / Designated use

### General information

The VarioTec device operates your roller shutters/sun protection systems on the basis of manual or external control commands.

The VarioTec device can be operated manually at all times.

The VarioTec is characterised by its user-friendly operation.

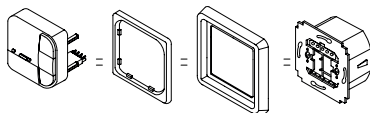
### Designated use

The VarioTec may be used to operate roller shutters/sun protection systems **only**.

This device may only be used in connection with equipment from other manufacturers following consultation with your local retailer.

## Installation / Connection

### Installation



**Note:** The encoding switch located on the back of the VarioTec device can be used to select group or drive control.

### Connection as a drive controller

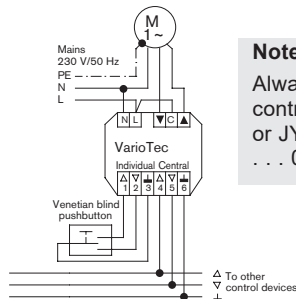
For details on suitable control systems, please refer to the control product catalogue.



#### Risk of injury by electric shock!

- Terminal connections must be carried out by an authorised electrician!
- If more than one drive is operated using the VarioTec, the drives must be decoupled by relay controls.
- The switched current of the device must be observed at all times!

1. Remove the protective caps.
2. Connect.



#### Note:

Always use a shielded control wire . . . 0.8 mm or JY-ST telephone line . . . 0.6 mm.

## Installation

3. Replace the protective caps on the power supply unit.
4. Secure the power supply unit in the box.
5. Insert the operating device into the frame and plug it into the power supply unit.

### Connection as a group controller

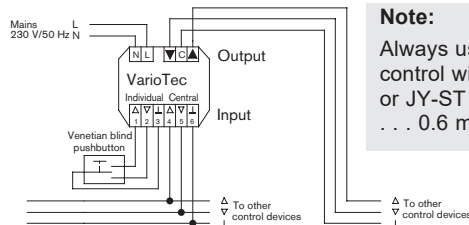
You can find the structure of a controller on [elero.com](http://elero.com) in the download area under „Installation instructions and circuit diagrams“.



#### Risk of injury by electric shock!

- Terminal connections must be carried out by an authorised electrician!

1. Remove the protective caps.
2. Connect.



#### Note:

Always use a shielded control wire . . . 0.8 mm or JY-ST telephone line . . . 0.6 mm.

3. Replace the protective caps on the power supply unit.
4. Secure the power supply unit in the box.
5. Insert the operating device into the frame and plug it into the power supply unit.

# Explanation of functions


## Factory settings

### Encoding switch factory setting

1. Lower position	Alarm signal function ON.
2. Lower position	Driver controller.
3. Lower position	Roller shutter/awning mode.

## Explanation of functions

### Manual/Automatic sliding switch

In the “**MANUAL** ” mode, only manual control commands and alarm signals are executed (e.g.: by pressing UP, STOP, DOWN buttons and alarm button).

When the sliding switch is set to “**AUTO**”, automatic control commands are carried out (e.g. control signals via group control inputs.).

### Alarm signal control light

An alarm signal is a continuous switching signal at the group or individual control inputs which lasts for more than 5 seconds.

If the alarm signal control light is illuminated, this indicates an alarm signal. The encoding switch 1 can be used to switch the alarm signal function on or off.

# Explanation of functions

## Reset button:

Press the **Reset button** (with a ballpoint pen or similar object) to delete the intermediate position and the ventilation/reverse position.

## POS ▽:

The **Pos ▽** button can be used to programme an intermediate position.

## POS Δ:

The **Pos Δ** button can be used to programme a ventilation/reverse position.

## Group control:

Group control refers to the simultaneous operation of several drives.

## Intermediate position:

The intermediate position lies between the upper and lower limits of the roller shutters/sun protection system and can be freely selected. The roller shutters/sun protection system can be moved into this position from the upper end limit after programming.

To do so, press the **DOWN** button **twice** in quick succession.

When the system is in venetian blind mode, it is also possible to programme a reverse position. In this case, this command will be automatically executed following the intermediate position command.

## Ventilation/reverse:

The ventilation/reverse position lies between the upper and lower limits of the roller shutters/sun protection system and can be freely selected. Your roller shutters can be moved into this position from the lower end limit until the ventilation slats are open. In venetian blind mode, the blind slats are turned.

To do so, press the **UP** button **twice** in quick succession.

## Function menu/Explanation of functions

### Drive controller:

If the VarioTec device is being used as a drive controller, the drive is directly connected to the VarioTec device, in which case external signals are converted into control commands. Encoding switch 2 must be set to the lower position.

### Group controller:

If the VarioTec device is being used as a group controller, additional group and drive control devices can be connected. Encoding switch 2 must be set to the upper position.

### Selecting roller shutter/awning or venetian blind:

Encoding switch 3 is used to select roller shutter/awning mode (lower position) or venetian blind mode.

In venetian blind mode, the blind moves in non-maintained command mode to ensure that the slats are positioned accurately.

Press and hold any control button for more than 1 second to operate the venetian blind in maintained command mode.

## Functions

### Manual operation functions

- UP, STOP, DOWN
- Adjustment to intermediate position
- Adjustment to ventilation/reverse position
- Alarm signals

### Automatic operation functions

In automatic mode, both manual and external control commands are executed:

- External automatic control commands
- UP, STOP, DOWN
- Adjustment to intermediate position
- Adjustment to ventilation/reverse position
- Alarm signals

## Programming menu

### Programming

#### Programming the intermediate position

**Prerequisite:** The shutter/curtain/blind is in the upper end limit position.

1. Press and hold the **Pos** ▽ programming button.
2. **Keeping this button pressed**, then press the **DOWN** button until the desired intermediate position has been reached. Use the **UP** or **DOWN** button to make any necessary adjustments.
3. Release the **Pos** ▽ the programming button. The intermediate position is now stored. The control light will flash 3 times briefly.

#### Programming the ventilation/reverse position

**Prerequisite:** The shutter/curtain/blind is in the lower end limit position.

1. Press and hold the **Pos** △ programming button.
2. **Keeping this button pressed**, then press the **UP** button until the desired ventilation/reverse position has been reached. Use the **UP** or **DOWN** button to make any necessary adjustments.
3. Release the **Pos** △ programming button. The ventilation/reverse position is now stored. The control light will flash 3 times briefly.

## Adjustment to intermediate position

The shutter/curtain/blind can only be moved into the intermediate position from the **upper** end limit position.

1. Press the **DOWN button twice** in quick succession.  
The shutter/curtain/blind is adjusted into the stored intermediate position.

## Adjustment to ventilation position (roller shutters)

Roller shutters can only be moved into the ventilation position from the **lower** end limit position.

1. Press the **UP button twice** in quick succession. The shutters are adjusted into the stored ventilation position.

## Adjustment to reverse position (venetian blinds)

The venetian blind slats **must** be closed before the blind can be adjusted into the reverse position.

1. Press **UP button twice** in quick succession.  
The venetian blind is adjusted into the stored reverse position.

When the blind reaches the stored intermediate position the blind slats are turned automatically (provided a reverse position has been pre-programmed).

## Deleting intermediate position

1. Press and hold the **Pos ▽** programming button for more than 5 seconds. The intermediate position is now deleted.  
The control light will flash 3 times briefly.

## Deleting ventilation/reverse position

Press and hold the **Pos Δ** programming button for more than 5 seconds. The ventilation/reverse position is now deleted.  
The control light will flash 3 times briefly.


## Technical data

Nominal voltage	230-240 V AC / 50-60 Hz
Switched current	5 A /250 V AC for $\cos \varphi = 1$
System of protection	IP 20
Protection class	II
The protection class II is guaranteed only after a correct installation.	
Permissible ambient temperature	0 to +55 °C
Type of installation	Concealed: Ø 58 mm wall-mounted Exposed: in appropriate exposed casing

## Cleaning

Clean the device with a damp cloth only. Do not use a cleansing agent as doing so may damage the plastic.

## Troubleshooting

Problem	Cause	Remedy
Drive is not functioning.	Faulty connection.	Check connection.
Drive moves in the wrong direction.	Faulty connection.	Exchange Δ and ▽ wires in the power supply unit.
VarioTec does not carry out external control commands.	1. Device is set to "MANUAL  " mode. 2. Alarm signal is active.	1. Set the device to "AUTO" mode. 2. Wait until alarm signal disappears or rectify problem causing signal.

## General declaration of conformity:

The company elero GmbH hereby declares that the VarioTec device complies with the basic requirements and other relevant regulations of the EC Directive 2014/35/EU.

## EC Declaration of conformity

### Declaration of conformity

**elero** GmbH hereby declares that the radio system type VarioTec is in compliance with directive 2014/53/EU. The complete text of the EU declaration of conformity is available at the following address: [www.elero.com/downloads/](http://www.elero.com/downloads/)



