



## User Manual

### Control button "TOUCH"

#### Control button "TOUCH"

User manual for Sky-Frame systems with an electric drive and wireless control button "TOUCH".



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## User Manual

### Control button “TOUCH”

#### Table of contents

#### Table of contents

|             |                                               |                  |
|-------------|-----------------------------------------------|------------------|
| <b>1.</b>   | <b><u>General information and symbols</u></b> | <b>14.4.1.1</b>  |
| <b>2.</b>   | <b><u>Introduction</u></b>                    | <b>14.4.2.1</b>  |
| 2.1         | Control button functions                      | 14.4.2.1         |
| <b>3.</b>   | <b><u>Safety</u></b>                          | <b>14.4.3.1</b>  |
| 3.1         | Safety measures                               | 14.4.3.2         |
| 3.2         | Operating the control button                  | 14.4.3.4         |
| 3.3         | Notes concerning use of control button        | 14.4.3.5         |
| <b>4.</b>   | <b><u>Part designations</u></b>               | <b>14.4.4.1</b>  |
| 4.1         | Sky-Frame Touch transmitter                   | 14.4.4.1         |
| 4.2         | Sky-Frame Touch receiver                      | 14.4.4.2         |
| <b>5.</b>   | <b><u>User functions</u></b>                  | <b>14.4.5.1</b>  |
| 5.1         | Opening and closing                           | 14.4.5.1         |
| 5.1.1       | Opening                                       | 14.4.5.1         |
| 5.1.2       | Closing                                       | 14.4.5.1         |
| 5.1.3       | Stopping the movement                         | 14.4.5.1         |
| 5.2         | Button block                                  | 14.4.5.2         |
| 5.2.1       | Activating the button block                   | 14.4.5.2         |
| 5.2.2       | Deactivating the button block                 | 14.4.5.2         |
| 5.2.3       | Active button block indication                | 14.4.5.2         |
| <b>6.</b>   | <b><u>Operating panel</u></b>                 | <b>14.4.6.1</b>  |
| 6.1         | Removing the operating panel                  | 14.4.6.1         |
| 6.2         | Fitting the operating panel                   | 14.4.6.1         |
| <b>7.</b>   | <b><u>Battery</u></b>                         | <b>14.4.7.1</b>  |
| 7.1         | Battery status                                | 14.4.7.1         |
| 7.2         | Replacing the battery                         | 14.4.7.1         |
| <b>8.</b>   | <b><u>Configuration</u></b>                   | <b>14.4.8.1</b>  |
| 8.1         | Coupling devices                              | 14.4.8.1         |
| 8.2         | Direction reversal                            | 14.4.8.2         |
| <b>9.</b>   | <b><u>Technical data</u></b>                  | <b>14.4.9.1</b>  |
| 9.1         | Control button                                | 14.4.9.1         |
| 9.2         | Receiver                                      | 14.4.9.2         |
| <b>10.</b>  | <b><u>Troubleshooting</u></b>                 | <b>14.4.10.1</b> |
| <b>10.1</b> | Power failure                                 | 14.4.10.1        |
| <b>11.</b>  | <b><u>Countries and regions</u></b>           | <b>14.4.11.1</b> |



These instructions are available in the following languages:

- German
- English
- French
- Italian

## User Manual

### Control button “TOUCH” General information

#### 1. General information

##### 1.1 Information concerning this manual

This manual explains how to use a Sky-Frame system which is operated using the “TOUCH” control button in a safe and efficient way. The manual is a constituent of the system and must be retained.

The manual must always be read carefully before starting work. A basic prerequisite for safe operation is adherence to all of the specified safety instructions and action instructions in this manual.

The illustrations in this manual are intended to provide a basic understanding and may differ from the actual design.

##### 1.2 Explanation of symbols

##### Safety instructions:

The safety instructions in this manual are marked with symbols. The safety instructions are preceded by signal words that indicate the level of danger. Adhering to the safety instructions will help to avoid accidents, injuries and damage to property.

#### **⚠ WARNING**



#### **WARNING!** (Danger to life and limb)

This symbol indicates a potentially dangerous situation that could lead to death or serious injury if it is not avoided.

#### **⚠ CAUTION**



#### **CAUTION!** (Risk of error)

This symbol indicates a potential risk of fault that could cause damage to property if it is not heeded.



#### **NOTE:**

This symbol highlights useful tips and recommendations for efficient and fault-free operation.

## User Manual

### Control button “TOUCH” General information

#### Special safety instructions

In order to point out particularly dangerous situations, the following symbols are used in safety instructions:

**⚠ DANGER**



#### **DANGER!** (Electric shock)

This combination of symbol and signal word marks dangers caused by electrical current. Failure to observe the safety instructions will result in a risk of serious or fatal injury.

#### Symbols in this manual

The following symbols and highlighting are used in this manual to mark action instructions, result descriptions, lists, references and other elements:

##### 1. Marks step-by-step action instructions

→ Marks a status or an automatic sequence resulting from an action step.

- Marks lists and list entries with no fixed order.

[→ Page No.] References to the pages of this manual.

#### Risk assessment



Since the system is moved using the Sky-Frame Touch control button in low-energy mode (in accordance with DIN EN 16005) with self-holding, a **risk assessment** must be carried out [→ page 11.3.4.1] and signed **before activating** this function at the drive.

In accordance with DIN 18650, which describes technical safety requirements for automatic door and sliding window systems in accordance with directive 2006/42/EG (machinery directive), prior to installing the automatic system a **detailed risk assessment must be carried out** in order to ensure that the automatic sliding panels can be operated safely.

## User Manual

### Control button “TOUCH” General information

#### Liability restriction

All information and notes in this manual have been put together taking the applicable standards and regulations, the state of technology, our knowledge and our many years of experience into consideration.

The manufacturer does not accept liability for damage caused by:

- Failing to follow the instructions in the manual
- Failing to use the equipment for its intended purpose
- Making technical modifications
- Using non-approved spare parts

The actual scope of delivery may differ from the information in this manual in the event of customized versions, the use of additional ordering options or because of technical changes.

The obligations agreed in the delivery agreement, the manufacturer's general business terms and conditions and delivery conditions, and the legal regulations that were applicable when the agreement was signed are applicable.

#### Warranty conditions

The warranty conditions are included in the manufacturer's general business terms and conditions.

#### Customer service

Please contact your responsible Sky-Frame partner if you have any questions or concerns.

## User Manual

### Control button “TOUCH” Introduction

#### 2. Introduction

The wireless Sky-Frame “TOUCH” control button is equipped with Bluetooth® Low Energy technology (referred to in the following as “Bluetooth”) for Sky-Frame systems with electric drive. Coupling the “TOUCH” control button with the Bluetooth-compatible Sky-Frame receiver unit at the drive allows the following functions to be carried out wirelessly (with an operating range of approx. 10 m (32' 9 11/16") in any direction).

#### 2.1 Control button functions

Functions of the “TOUCH” control button:



Picture: TOUCH MVv

- Start element movement in the opening direction
- Stop element movement during travel
- Start element movement in the closing direction
- Activate / deactivate the button block

In order to avoid accidents, it is essential to first read the “Safety” chapter before use [→ page 14.4.3.1].

These operating instructions must be read in full in order to use the product correctly.

#### **⚠ WARNING**



#### **WARNING!**

##### **Danger from incorrect use!**

During manual operation of the system, buttons can be inadvertently pressed which can open or close the system. If you would like to avoid inadvertent activation, you should activate the button block at the “TOUCH” control button [→ page 14.4.5.2] or remove the battery. The operating range of the control button can vary depending on the usage conditions. More information can be found under “Notes on using the control button” [→ page 14.4.3.5].

Please note that Sky-Frame does not accept any liability for loss or damage to the product resulting from use of erroneous settings with the wireless communication function. Nor does Sky-Frame accept any liability for other losses or damage caused by the use of the product.

## User Manual

### Control button “TOUCH” Safety

#### 3. Safety



This section provides an overview of all important safety aspects for providing the user with the best possible protection and for ensuring that operation is safe and problem-free. Failure to observe the action instructions and safety instructions in this manual can lead to considerable danger.

#### Use for intended purpose

The “TOUCH” control button is exclusively for use with the drives SI-1000 + PD-200 (Power-Drive 200), and has been designed and constructed for the intended purpose of use described in this manual.

Intended purpose of use also includes complying with all of the specifications in this manual. Any other use is considered to be incorrect. Claims of any kind for damage caused by incorrect use will not be entertained.

#### Basic dangers

In order to minimize health hazards and avoid dangerous situations, the safety instructions listed here and in the other chapters of this manual must be followed.

#### Electric current

**⚠ DANGER**



#### **DANGER!**

#### **Risk of fatality due to electric current!**

Coming into contact with live components will result in a direct risk of fatality due to electrocution.

Damage to the insulation or individual components can be life-threatening.

- **Have all work on the electrical system carried out by trained experts.**
- In the event of damage to the insulation, switch off immediately and have it repaired.
- Keep moisture away from live components. This can lead to short circuits.
- Never undo screws on the system and remove the service cover.

## User Manual

### Control button “TOUCH” Safety

#### 3.1 Safety measures



The following safety precautions are intended to prevent you or anyone else from becoming injured or damaged. Please ensure that you have read and understood these safety measures exactly before using the control button.

If you notice any malfunctions, problems or damage on the device, please contact Sky-Frame customer service or the specialist company from which you purchased the product.

**Please note the following safety precautions** in order to prevent fires, the development of intense heat, escaping chemicals, explosions and electric shocks:

- Only use the batteries, power sources and accessories which are specified in these operating instructions. Do not use batteries which you have made yourself or modified, or use the control button itself if it is damaged.
- Do not short-circuit the battery, take it apart or make any modifications to it. Do not bring the battery into contact with heat or soldering material. The battery must not come into contact with fire or water. Do not subject the battery to strong physical impacts.
- Do not insert the battery with the plus and minus terminals reversed. Before disposing of the battery, insulate the electrical contacts with a strip of adhesive tape. Direct contact with other metallic objects or batteries could lead to a fire or an explosion.
- Remove the battery immediately if liquid escapes, the shape or color of the battery changes or if smoke development occurs. Proceed with caution in this case in order to avoid burns. If you continue to use the battery there is a risk of fire, burns or electric shocks.

## User Manual

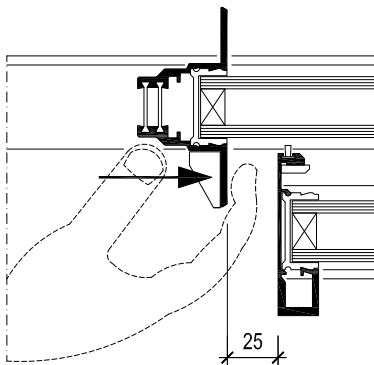
### Control button “TOUCH” Safety

#### 3.1 Safety measures



**Note:**

In the open position, the sliding elements remain 25 mm (1") apart (anti-pinch protection).



- Electromagnetic waves radiated by the product may interfere with instruments or medical devices.
- In most countries, thanks to the low-energy mode, no additional monitoring elements are required.
- Do not allow the product to become wet. If the product falls into water or it is penetrated by water or metal, remove the battery immediately. This will avoid fires, electric shocks and burns.
- Do not use substances containing thinner, benzene or other organic solvents to clean the product. Risk of fire or health risk.
- If the product is going to be used by a child, a detailed explanation of how to use it must be provided by an adult beforehand. **Always supervise children when they are using the product.** Improper use can lead to electric shock or injuries.



#### **WARNING!**

**Do not swallow the battery!**  
**Risk of chemical burns!**

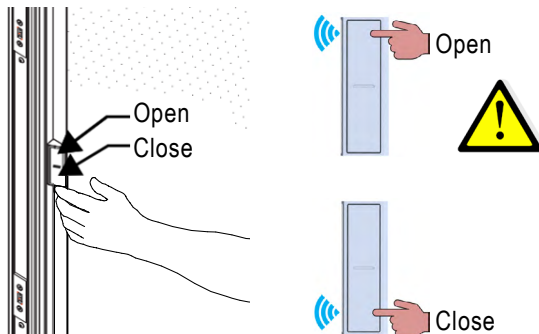
This product contains a coin/button cell battery. If swallowed, the coin / button cell can cause severe internal chemical burns and lead to death within just 2 hours.

Keep new and used batteries out of the reach of children and infants. If the battery compartment does not close securely, stop using the product and keep it away from children. If a child or infant swallows the battery, seek medical attention immediately. The chemicals in the batteries can cause injuries to the gastrointestinal tract.

## User Manual

### Control button "TOUCH" Safety

#### 3.2 Operating the control button



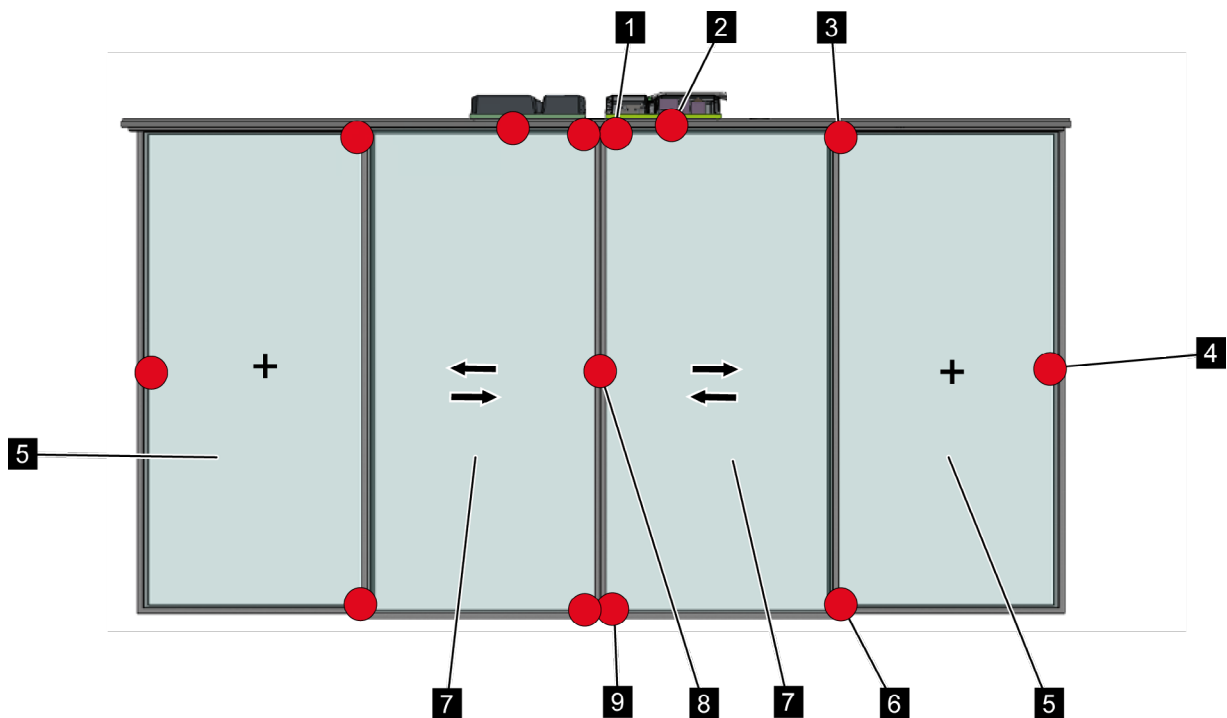
Operate the control button as shown in the illustration during operation.

#### **WARNING!**

**Never reach into the closing or opening area while the system is in motion!**

#### **WARNING**

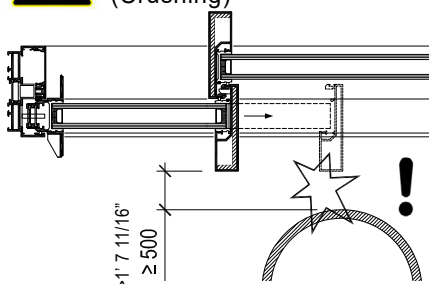
The marked locations in the illustration below show the possible danger areas on the system, where persons are at risk of injury in the event of improper behavior.



#### **WARNING**



Danger for the body:  
(Crushing)



#### **Danger areas:**



1. Between top edge of panel and runner when closing
2. Between top edge of panel and runner when opening
3. Between sliding panels and between sliding panel and frame when opening
4. Fixed panel
5. Between bottom edge of panel and runner when opening
6. Sliding panel
7. Between sliding panels and between sliding panel and frame when closing
8. Between bottom edge of panel and runner when closing
9. Danger to the body (danger of being drawn in, crushing)

## User Manual

### Control button “TOUCH” Safety

#### 3.3 Notes concerning use of control button

If the operation of the control button is delayed or affected or if any other problems occur, please attempt to carry out the following troubleshooting measures:

#### Distance between control button and receiver

The maximum operating range between the transmitter and the receiver is approximately 10 m (32' 9 11/16") in all directions. It may not be possible to carry out the remote control functions further away from the receiver.

#### Transmission affected by objects blocking the signal

The operating range of the control button may be reduced if persons or objects are present between the control button and the receiver at the drive. The operating range of the device may be reduced if the device is covered. In cases such as this, remove obstacles which could affect the wireless transmission or reduce the distance from the receiver in order to be able to carry out the required remote control functions.

#### Radio wave interference in the 2.4 GHz band

This product establishes communication via radio waves in the 2.4 GHz frequency band. For this reason, the operation of the control button may be delayed or affected if there are electronic devices using the same frequency in the vicinity.

- The electronic devices which use the same frequency band include WLAN devices, smartphones, Bluetooth devices, microwave devices, cordless telephones and other similar devices.
- If radio wave interference occurs between the transmitter and the receiver and a nearby electronic device, either stop using the electronic device, or use it further away.

User Manual

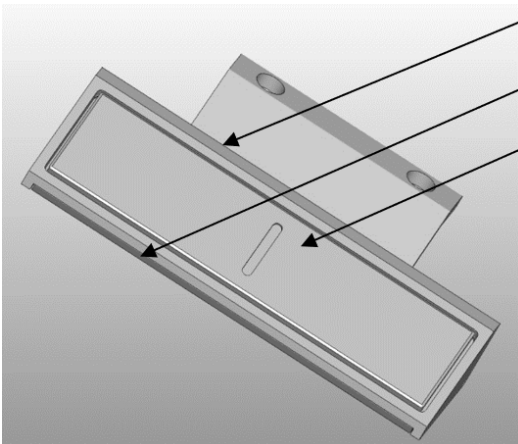
Control button “TOUCH”  
Part designations

4. Part designations

All parts are described in the following.

4.1 Sky-Frame Touch transmitter

The “TOUCH” control button acts as a Bluetooth transmitter.

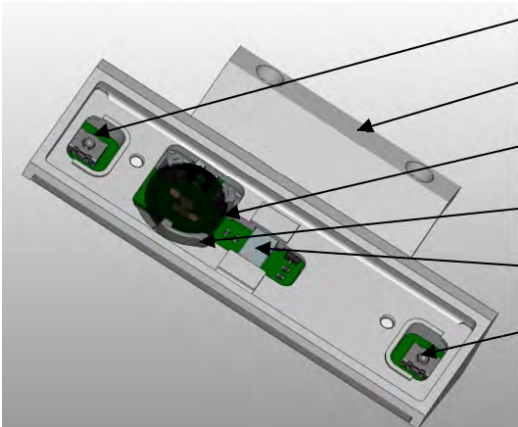


- Handle housing
- Light conductor
- Operating panel / battery compartment cover



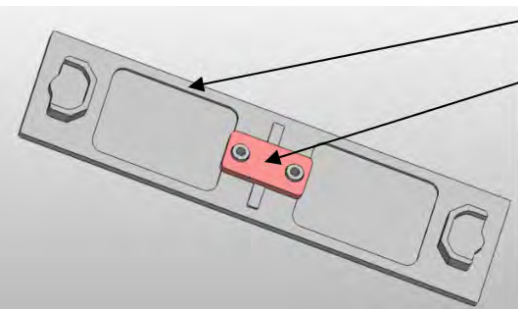
**NOTE:**  
The control button is supplied without a battery.  
Type: **VARTA CR1632** (3 V)

Entire control button



- Control button S2
- Mounting bracket
- Button cell battery
- Battery locking mechanism
- Magnet storage
- Control button S1

Control button without operating panel



- Operating panel / battery compartment cover (rear)
- Magnet surface

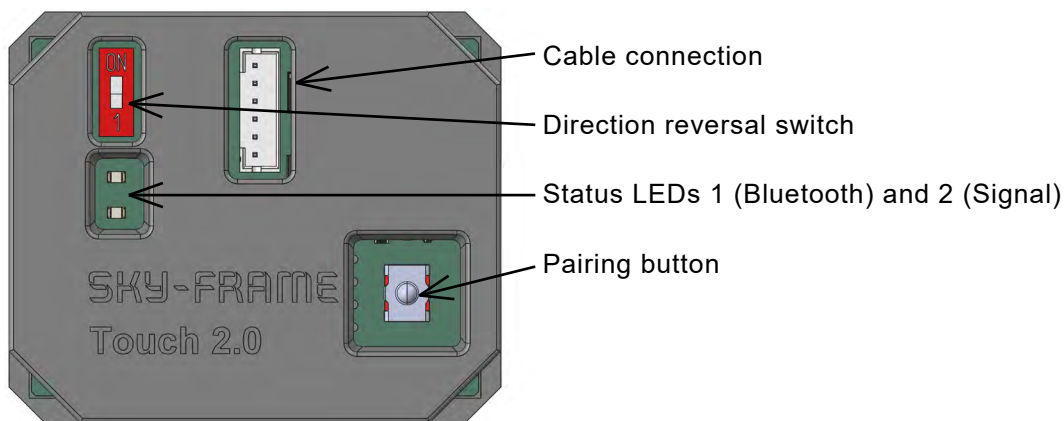
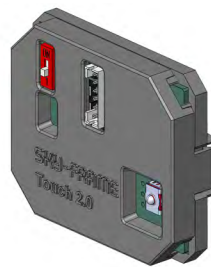
Rear of operating panel

## User Manual

### Control button "TOUCH" Part designations

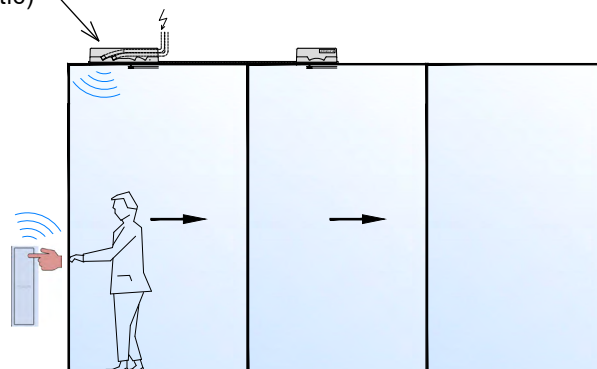
#### 4.2 Sky-Frame Touch receiver

The additional module at the primary drive (#1.1) acts as a Bluetooth receiver.



Receiver module

Location:  
(schematic)



## User Manual

### Control button "TOUCH" User functions

#### 5. User functions

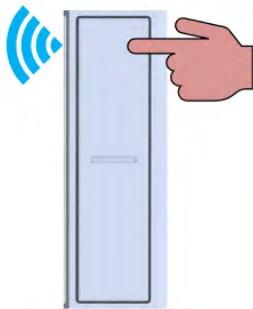
All functions of the control button "TOUCH" are described in the following.

#### 5.1 Opening and closing

To open the system, briefly press the **top** button of the control button.

##### 5.1.1 Opening

→ The top LED briefly illuminates in **blue**, and the system opens.



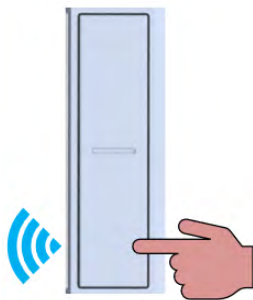
##### For technicians:

The Bluetooth status LED on the Sky-Frame "TOUCH" receiver briefly illuminates in **green** when the OPEN signal is received. If the signal does not reach the receiver, both LEDs on the control button will **flash red three times** immediately after flashing blue.

##### 5.1.2 Closing

To close the system, briefly press the **bottom** button of the control button.

→ The bottom LED briefly illuminates in **blue**, and the system closes.



The Bluetooth status LED on the Sky-Frame "TOUCH" receiver briefly illuminates in **green** when the CLOSE signal is received. If the signal does not reach the receiver, both LEDs on the control button will **flash red three times** immediately after flashing blue.

##### 5.1.3 Stopping the movement

To stop the system during movement, briefly press any button on the control button.

→ The respective LED briefly illuminates in **blue**, and the system stops.



The Bluetooth status LED on the Sky-Frame "TOUCH" receiver briefly illuminates in green. If the signal does not reach the receiver, both LEDs on the control button will **flash red three times** immediately after flashing blue.

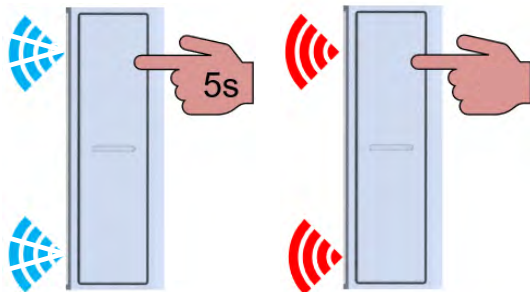
## User Manual

### Control button “TOUCH” User functions

#### 5.2 Button block

The “Button block” function prevents unintentional movement of the sliding panels.

##### 5.2.1 Activating the button block

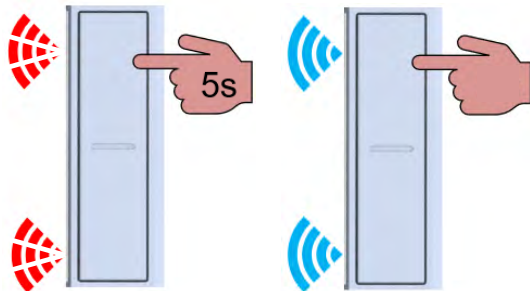


To activate the button block, press and **hold down** one of the two control buttons **for 5 seconds**.

→ The respective LED **flash in blue for 5 seconds**, then both LEDs are illuminated in **red**.

The button block is now active, and you can release the control button again.

##### 5.2.2 Deactivating the button block

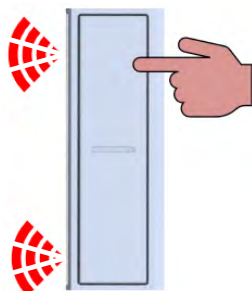


To deactivate the button block, press and **hold down** one of the two control buttons **for 5 seconds**.

→ The respective LED **flash in red for 5 seconds**, then both LEDs are illuminated in **blue**.

The button block is now deactivated and you can release the control button.

##### 5.2.3 Active button block indication



If a button is pressed for less than 5 seconds with the button block activated, **both LEDs flash in red** for as long as the button is pressed

#### **NOTE:**

Further operating sequences depend on the drive type (SI-1000 / PD-200).

See “14.3 User Manual – Power-operated sliding windows” for further details.



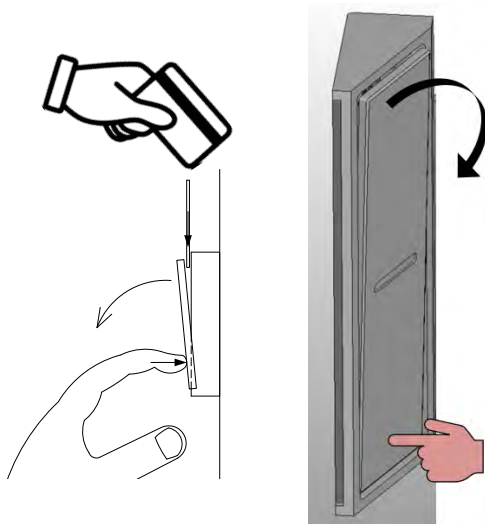
## User Manual

### Control button "TOUCH" Operating panel

#### 6. Operating panel

The operating panel must be removed to change batteries, delete the coupling of the "TOUCH" control button or to reverse the direction.

##### 6.1 Removing the operating panel



If the "TOUCH" control button is already connected, first **activate the button block** [→ page 14.4.5.2] to prevent undesirable opening or closing of the system.

Press the bottom of the operating panel and slide a plastic card (e.g. credit card) beneath the upper part of the operating panel.

→ This separates the magnetic connection between the operating panel and the handle housing, and the operating panel can be removed.

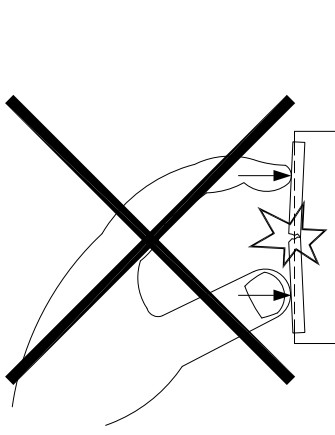
##### 6.2 Fitting the operating panel

To replace the operating panel simply place it onto the basic housing of the "TOUCH" control button.

→ The operating panel is attracted by the magnets.

Now the button block can be deactivated again [→ page 14.4.5.2].

Check that the button is operating correctly after replacing the operating panel.



#### ⚠ CAUTION

##### CAUTION!

**Danger from incorrect use!**

**Never press the rocker switch at both sides using force!** This can destroy the operating panel.

## User Manual

### Control button "TOUCH" Battery

#### 7. Battery

The battery is located beneath the operating panel.

##### 7.1 Battery status



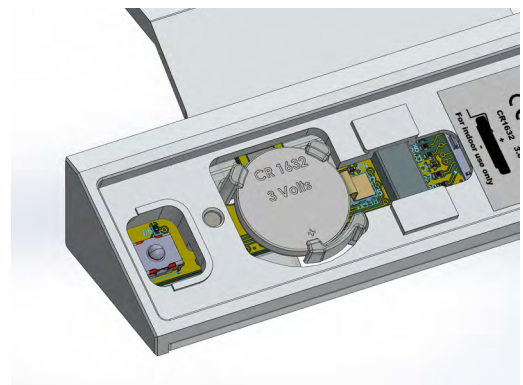
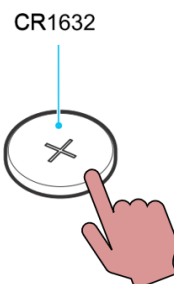
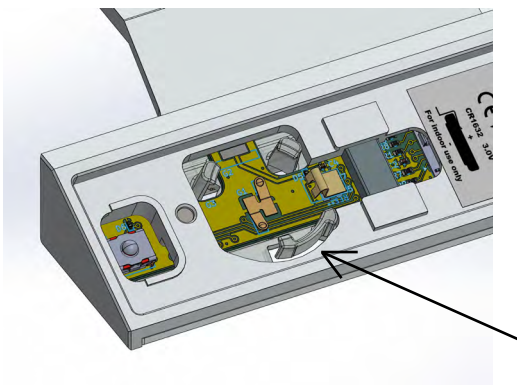
When the battery reaches a critical voltage, this will be indicated by **red flashing of the LEDs** when the control button is pressed.

The control button will only continue to operate for a short time after this. The battery must be replaced as soon as possible.

##### 7.2 Replacing the battery

Replacing the battery:

1. To replace the battery, first remove the operating panel [→ page 14.4.6.1].
2. Pull back the locking tab and remove the battery from the battery compartment towards the front and upwards.
3. Slide a new **VARTA CR1632 (3 V)** battery into the battery compartment with the + pole end at the top, and secure it beneath the locking tab with a gentle push.



## User Manual

### Control button "TOUCH" Configuration

#### 8. Configuration

All of the configuration options of the "TOUCH" control button are described in the following.



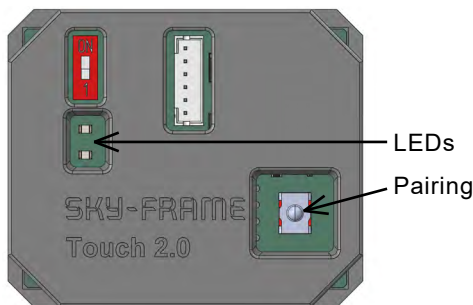
#### **CAUTION!**

**This work must only be carried out by trained specialist personnel!**

#### 8.1 Coupling devices

To connect the control button "TOUCH" with the receiver module of the electric drive, proceed as described in the following.

1.)

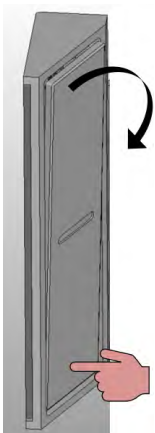


1. **Activate** pairing mode on the receiver by briefly pressing the pairing button. The Bluetooth status LED will then remain lit in **yellow**..
2. On the transmitter (= control button "TOUCH"), first remove the operating panel [→ page 14.4.6.1].
3. Then **press both buttons shortly** at the same time to activate pairing mode.

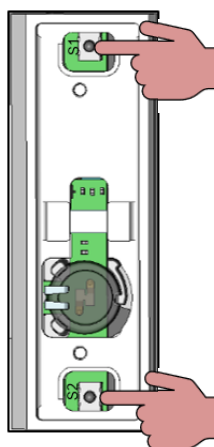
→ Pairing mode is indicated on the handle by both LEDs flashing in **blue**.

→ The two devices now automatically perform the pairing and exchange the data that is required for a secure connection.

2.)



3.)



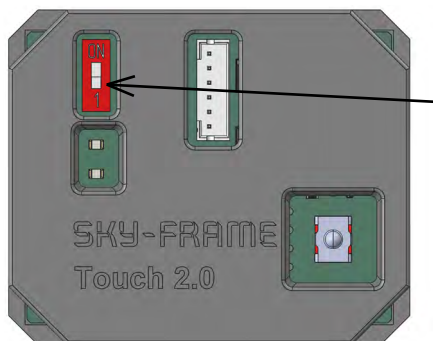
- When both LEDs on the "TOUCH" control element **flash blue shortly** and the status LED on the receiver lights up **green**, pairing has been successfully completed.
  - Once all the LEDs have gone out, the control button can be used.
4. Reattach the control panel to the control element.
  5. When the TOP operating panel is pressed, the system must move in the **OPEN** direction. If this is not the case, see "Direction Reversal" [→ page 14.4.8.2].

## User Manual

### Control button “TOUCH” Configuration

#### 8.2 Direction reversal

To reverse the direction (OPEN / CLOSED) of the control buttons (TOP / BOTTOM), proceed as follows:



1. On the **receiver**, move the direction reversal switch to the other position.
2. On the **transmitter** (= control element “TOUCH”), check whether the system **OPENS** when you press the TOP control button.

#### General information:



- It is recommended that you **teach in the start and stop positions** of the sliding elements before pairing the devices for the first time.
- It is not possible to pair two or more “TOUCH” control buttons with a single receiver unit simultaneously.
- To pair the devices, ensure that a VARTA CR1632 (3 V) button cell is inserted into the control button and that the drive is connected to a power supply. Otherwise, pairing the devices will not be possible.
- The pairing remains stored until actively deleted and is not reset by a power cut to either the control button or the drive. The remote control functions can be used again immediately once the power supply has been switched on [→ see “Behaviour after a power failure”, page 14.4.10.1].

## User Manual

### Control button "TOUCH" Technical data of control button

#### 9.1 Technical data of control button

Technical data of the control button "TOUCH".

**Type:** SFx RV Touch 2.0 Bg Transmitter (Art.Nr. 403976)  
SFx MVv Touch 2.0 Bg Transmitter (Art.Nr. 403977)

**Compliance standards:** Bluetooth Specification Version 6  
(Bluetooth Low Energy technology)

**Operating range:** Approx. 10 m\* from the control button, in any direction  
\* Provided there are no obstacles between the control button and the receiver and no radio interference.

**Power supply:** VARTA CR1632 lithium button cell (3 V)

**Battery life:** approx. 2 years (depending on usage)

**Dimensions (L x W x H):** approx. 90 x 49 x 23 mm

**Weight:** approx. 43 g (including battery)

**Operating temperature range:** 0 °C – 40 °C (+32 F - +104 F)

**Humidity operating range:** ≤ 85% (non-condensing)

**Control light status:**

| Indicator light                                                             | Status                                                                                          |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| When pressed, the corresponding LED flashes BLUE 3 times                    | Normal operation                                                                                |
| When pressed, the corresponding LED flashes RED 3 times                     | Low battery voltage → Replace the battery as soon as possible; device is still working properly |
| Both LEDs are flashing RED                                                  | Button block activated                                                                          |
| When pressed, the corresponding LED flashes 3 times in BLUE and then in RED | Receiver not reached                                                                            |
| When pressed, the corresponding LED flashes GREEN                           | Dead man's switch active                                                                        |
| Both LEDs flash in BLUE                                                     | Control button ready for coupling                                                               |
| Both LEDs light up BLUE                                                     | Coupling successful                                                                             |

Subject to changes to the product data and appearance without advance notice.

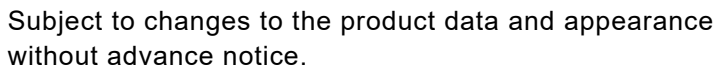
## Control button “TOUCH”

### Technical data of receiver

Technical data of the “Touch” receiver.

|                                     |                                                                                                                                                                     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Compliance standards:</b>        | Bluetooth Specification Version 6<br>(Bluetooth Low Energy technology)                                                                                              |
| <b>Operating range:</b>             | Approx. 10 m* from the control button, in any direction<br>* Provided there are no obstacles between the control button and the receiver and no radio interference. |
| <b>Power supply:</b>                | U = 24 V DC, I = < 50 mA<br>(supplied directly from the drive unit)                                                                                                 |
| <b>Dimensions (L x W x H):</b>      | approx. 55 x 45 x 10 mm                                                                                                                                             |
| <b>Weight:</b>                      | approx. 20 g                                                                                                                                                        |
| <b>Operating temperature range:</b> | 0 °C – 40 °C (+32 F - +104 F)                                                                                                                                       |
| <b>Humidity operating range:</b>    | ≤ 85% (non-condensing)                                                                                                                                              |

| Indicator light                                | Status                                                    |
|------------------------------------------------|-----------------------------------------------------------|
| LED 2 flashes once in GREEN                    | Receive an 'OPEN' or 'CLOSED' signal from the transmitter |
| LED 1 is lit continuously in YELLOW            | Receiver ready for pairing                                |
| LED 1 lights up YELLOW + LED 2 lights up GREEN | Coupling successful                                       |



## User Manual

### Control button "TOUCH" Troubleshooting

#### 10. Troubleshooting

If the device does not function as described, check:

1. Does the drive have a power supply?
2. Is there a battery in the control button?

If there is still no connection to the device, please contact your responsible Sky-Frame partner.



**A check must be carried out yearly  
by a specialist.**

#### 10.1 Power failure

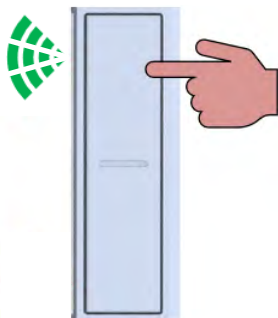
Behaviour following a power failure:



The receiver detects a power failure at the drive.

The first time the "TOUCH" button on the transmitter is pressed following a power failure, it switches to the "dead man's operation" mode for 10 minutes.

This operation operates as follows:



- The **"Dead man's operation"** is indicated by the **green flashing light** on the corresponding button on the control element.
- As long as the UP or DOWN button on the transmitter is pressed, the signal is received by the receiver. When the button is released, signal transmission stops = classic deadman's operation.
- The option to activate the button lock is disabled during these 10 minutes.
- Once the 10 minutes have elapsed, the system automatically switches back to normal operation.

#### What is the "dead man's operation"?

In this mode, the sliding element only moves for as long as the control button is pressed. If the control button is released, the movement of the window stops.

## User Manual

### Control button "TOUCH" Countries and regions

#### 11. Countries and regions



Countries and regions in which the use of wireless communication functions is permitted.

The use of wireless communication functions may be restricted or forbidden in certain countries.

The infringement of national or local regulations may be punishable by law.

Sky-Frame accepts no liability for problems originating from the use of wireless communication functions in other countries and regions.

Bluetooth frequency range: 2402 MHZ - 2480 MHZ  
Maximum Bluetooth output: 7.14 dBm

Hereby, Sky-Frame declares that the radio equipment type of the following models is in compliance with Directive 2014/53/EU:

- SFx RV Touch 2.0 Bg Transmitter (Art.Nr. 403976)
- SFx MVv Touch 2.0 Bg Transmitter (Art.Nr. 403977)
- SFx Touch 2.0 Bg Receiver (Art.Nr. 403900)



The full text of the EC declaration of conformity is available at the following internet address:

EN: <https://www.sky-frame.com/en/ec-declarations-conformity>



Download user manual:  
<https://www.sky-frame.com/manual>

## User Manual

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### Control button “TOUCH”

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#### Disclaimer:

All specifications are non-binding and must not be regarded as a guarantee.

Sky-Frame AG reserves the right to modify, extend or delete the specifications, product data and appearance without notice. The latest version of this document is always decisive.

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