Technical Manual


二 $\begin{gathered}\text { Liftboy } 5 \\ \text { Vertical } \\ \text { platformlift }\end{gathered}$ 三

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## Liftboy 5

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## Introduction

The Liftboy 5 is a vertical platform lift designed for the transportation of wheelchair drivers. The driving mechanism is a double scissor driven by $2 \times 24 \mathrm{~V}$ actuators and powerered by $2 \times$ 12 V batteries which are continuously charged (as long as the main power switch is switched ON).
The standard version of the Liftboy 5 is delivered with a manual gate for the upper level including a shear wall and with an automatic access ramp on the platform. The standard platform size is $900 \times 1400 \mathrm{~mm}$.

Technical specification

| Loading capacity | 300 kg |
| :--- | :--- |
| Lifting speed | $0,04 \mathrm{~m} / \mathrm{s}$ |
| Net weight | 270 kg |
| Drive mechanism | Double scissor |
| Motors | $2 \times 24 \mathrm{~V}$ actuators |
| Max power | 300 VA |
| Power supply | $2 \times 12 \mathrm{~V}$ batteries |
| Power supply for battery charger | $1 \times 230 \mathrm{~V}$ |
| Folded down height | 120 mm |
| Lifting travel | 1180 mm |
| Total unfolded lifting height | 1300 mm |
| Color standard | RAL 7035 |
| Remote controls in landings | Radio frequency controlled |
| Duty cycle | $10 \%, 6$ min. $/ \mathrm{h}$ |
| Standard lift size (outside dimension) | $1150 \times 1570 \mathrm{~mm}$ |

## Delivery

The unit is delivered preassembled in 2 main parts, packed on a wooden pallet:

1. Folded platform ( 270 kg )
2. Upper door wide shear wall ( 90 kg )

When unpacking the lift, check all parts for potential visible damage during transportation. If damage is visible, please immediately take pictures and send those later to Lehner Lifttechnik GmbH for potential warranty claims.

## Safety

- Read all instructions in this manual before installing or operating the lift.
- Do not exceed the maximum payload capacity of 300 kg .
- This product is designed only for lifting people and wheelchairs only.
- Do not disable any safety equipment or switches supplied with this lift.
- Stay away from all drive train components while the lift is operating.


## Overview platform mechanics and switch position:

In the following various views of the Litboy 5 are presented in order to provide an overview of the main functions and components.

## With door on platform (manual or automatic)

With automatic access ramp on platform


## Platform controls



## Upper gate door lock



## Side view of unfolded platform without safety curtain



Side view of folded platform with battery and controller position


## View of platform switch positions

Picture of all the limit switches placed on a platform. Limit switches are placed directly under the floor, right on motors. Switches for lower stop on a motor M1 which is placed on the left, limit switch of the upper stop on a motor M2 on the right.
Pic. 24 Display of limit switches (bottom view)


Switch position - view from below!!


## Installation

The folded platform has a net weight of 270 kg . 4 people will be necessary to move the platform from the transport box to the installation location. Use belts that go under the whole structure to lift and move the platform.


Use belts to connect to the metal frame ( 2 connection points are given on each side). On each side of platform 2 people can pull on the belts to raise and move the platform.

There are 2 ways to install the platform on site:

1. Bring the platform in the correct position while assuring that there is the necessary space in front of the platform for entering the upper gate with the shear wall. When the platform is in place enter the upper gate with shear wall from above and make sure not to damage the guide blocks on each side of the platform. When in place fix the upper gate wall in place and run the platform up and down. If the run is smooth, then
 fix also the platform to the ground.
2. First fix the upper gate with shear wall on the correct position on site. Then take off the guide blocks on both side of the platform. Move the platform in the correct position in front of the shear wall in such a way that the guide blocks can be put into the guide profile and fixed again on the platform sides. Run the platform up and down. If the run is smooth, then fix also the platform to the ground.

## Controls descpriptions:

## Radio controls for landings stations:



Drive from external controllers can be set in a menu item "Options - Drive with permanently active buttons", the directional drive button must be activeted during the platform's movement, respectively after the button is not pressed anymore, platform standardly stops immediately.
Other option is allowed after a function "Activated imp." is selected, afterwards control button can be just activated by a short press and the platform automatically drives all the way to the final stop in the chosen direction. This function is only possible for the platform in a lift shaft.

## Overload control

During motors activity, consumed current is monitored and after the set limit is exceeded, motors are stopped. If platform's overload control is active and the overload occurs when the platform leaves the lower stop (shown on a display as ,,overload lift") - the drive up is immediately interrupted and only drive down is allowed. The platform must drive back to the lower stop, where it is possible to open ramps, respectively open lower door. By doing so, platform returns to its standard mode and drive up is possible again.
Setting of the max motor current will be done in a menu digitally - setting in a range between $1-15 \mathrm{~A}$ (factory default $\operatorname{In}=13 \mathrm{~A}$ ). Asymmetry of motors is also set in the menu in \% of overcurrent threshold.

## Control description of automatic access ramp

The automatic ramp can be controlled by platform's controller or the radio controller. Commands from the platform's controller has priority over any other controllers.
Opening of the automatic ramp is possible only in the lower stop (signalized by closing of the lower zone switch of the ramp $\mathrm{SZ}=1$, by activation of lower limit switch $\mathrm{S} 28-2=0$ and $\mathrm{S} 28-3=1$ ).
Movement of the ramp is blocked by any switch of a safety curcuit, that means that power supply of relay $\mathrm{KC1} / \mathrm{K} 01$ is interrupted.
During the actuator's movement, current is monitored and after exceeding set limit for more than 0,3 sec, the actuator's movement is stopped, overcurrent safety works as an electronic limit switch.
Setting of the max actuator's current is possible in menu - in between 0,5-6,9 A.
Exceeding of this limit is also shown on display.

## Control description of manual and automatic door

Doors can be manual (equipped with electric door lock to secure the door - door has to be opened/closed manually) or automatic (equipped with electric door lock and automatic door opener, usually NICE WALKY).

## Function description of manual door operation:

In case of manual door the menu item „Config.door lck" value is set to 0 (means 0 impulse for door opener). Time of opened door lock, during which manual opening of the door after arrival in stop station is possible, can be set in menu item „Config.door lck - Time open.DL".
The respective door will also lock when drive button on the platform in opposite down/up direction is pressed. If the platform is controled by wall mounted/radio controllers, ones has to wait until the timing of unlocking of the door lock is finished and after that to select drive down/up.

## Automatic door opener function description:

The door opens automatically after reaching the stop position. The time for which the door lock stays unlocked and door stays opened, can be set in a menu item „Config. door lock" „Time open. DL". The factory setting is 30 seconds. This is also the minimal value for electric opener Nice WALKY!!
If you make changes, do not set the time less than 30 seconds. It must be 30 seconds or more. The door will stay unlock for the set time, or until you press drive in down direction on the platfrom controls.

We have two setting versions for automatic opening of the door:
Version 1 - Standard - factory default
Version 2 - With blocking of door
Standard version: After the door opens it stays open for the set time or until you press drive in opposite direction on the platform controls. From the external controls the platform can only be called/sent after the set time passed and the platform closed automatically.

Version with blocking of door: This version allows the door to stay open permanently. If can be useful if the platform is used for loading to goods.
In this version the door can be blocked in open position if you press the up button more then 3 seconds after the door is fully opened. If you then want to unblock it again you have to press again the up button for more then 3 seconds and it will return to normal mode and close after the set time or when down button is pressed.
To set this version in the menu it is necessary to set the menu item „Config. door lck" - „Impulse for DO" on value 1, the opened door time in parameter „Time open. DL" on min 30 sec the menu item „Config. door lck" "Version DO" - „With blocking".

## Manual unblocking of door lock and automatic door opener

Door lock is equipped with mechanic system, which enables to manually open the electric lock. This is necessary in emergency state, when you can not unlock the lock electronically via controllers. In this case, proceed accordingly to following description and suggested error removal F 303.


Manual release of an automatic opener works on similar principle. If the platform has an opener NICE Walky, it is necessary to not only unlock the door lock, but also the opener (accordingly to the description below). This is necessary in emergency state, when the door lock or the door opener can not be unblocked electronically via the controllers. See below description of how unlock the door openener.


After leaving the lift in the landing station close the door, manually lock the door lock with the key again and activate the automatic opener

## Emergency opening of the automatic access ramp:

In a case that electric opening of the ramp does not work, it can be opened manually in the lower stop in order to release a passenger.

Dismantle 2 screws M8x40 DIN912, secure the loosen ramp and slowly lower it down manually towards the ground.


## Switches and connectors on the control unit

In this chapter, function and activity of each switch on the main control board will be described.


## Switch S2

This switch selects between user/service menu types. For the detailed descripion see chapter 0

Menu.


PIC. 11 Detailed look at the switch S2 on Liftboy CU
WARNING: After the platform installation and setting all service menu parameters, push the switch S2 to the positon for user menu!!!.

## Button S1

This button serves for pairing/programming the attached RF receiver with the RF transmitters (RF wall-mount controllers). See overview of main board for button location.

## LED signalization on platform's control unit



## Description of LED signalization of platform's control unit

| Name | Colour | Function |
| :---: | :---: | :---: |
| LD1 | green | Lights when battery charging is active |
| LD2 | green | Lights when alarm input is activated |
| LD3 | green | SS; Lights when the control key is active |
| LD4 | green | S20; drive up button is pressed on the platform |
| LD5 | green | S21; drive down button is pressed on the platform |
| LD6 | green | S20L; drive up button is pressed on one of the wall mounted controllers |
| LD7 | green | S21L; drive down button is pressed on one of the wall mounted controllers |
| LD8 | green | S11C. 2 reseve input for ramp |
| LD9 | green | S11C.3; Lights when the ramp is fully closed |
| LD10 | green | S110.2 reserve input for ramp |
| LD11 | green | SU; Overload control (not used) |
| LD12 | green | ODU; Ligths if upper door is open |
| LD13 | green | ODL; Lights if lower door is open |
| LD14 | green | RSV1; reserve input of control unit |
| LD15 | green | RSV2; reserve input of control unit |
| LD16 | green | S7X; turns of after STOP-button is pressed |
| LD17 | green | S22U; turns off when the upper emergency switch is activated |
| LD18 | green | SR1; reserve input of an safety circuit |
| LD19 | green | SDU; turns off if the upper door is open |
| LD20 | green | SDL; turns off if the lower door is open |
| LD21 | green | SR2; Turns off if the motor synchronization switch is activated |
| LD22 | green | S27.3; Lights if the upper stop limit switch was activated |
| LD23 | green | Relay KC1; Lights if the ramp is closing |
| LD24 | green | Relay K01; Lights if the ramp is opening |
| LD25 | green | Relay KLL; Lights if coil of the upper electronic lock is activated, that means lock is in the timing regime |
| LD26 | green | S28.3 Lights if the lower stop limit switch was activated |
| LD27 | green | S27.2; Lights if the platform is outside the upper stop |
| LD28 | green | S28.2; Lights if the platform is outside the lower stop |
| LD29 | green | EKU; Turns off when the upper safety bottom is activated (pressed) |
| LD30 | green | Relay KLU; Lights if coil of the lower electronic lock is activated, that means lock is in the timing regime |
| LD31 | green | Relay RKOLO; Lights if the relay, which sends impulses to the lower automatic door opener, is activated |
| LD32 | green | Relay RKOUO; Lights if the relay, which sends impulses to the upper automatic door opener, is activated |
| LD33 | green | EKD; Turns off when the lower safety bottom is activated (pressed) |
| LD34 | green | Relay K1U; Light if the main drive up relays are activated |
| LD35 | green | Relay K1D; Light if the main drive down relays are activated |
| LD36 | green | T4; Light if the main control transistor T4 is activated |
| LD37 | green | SZU; Lights if the upper limit switch is released (platform is in the upper zone) |
| LD38 | green | SZL; Lights if the lower limit switch is released (platform is in the lower zone) |


| Name | Colour | Function |
| :---: | :---: | :---: |
| LD39 | green | SZ; Lights if the lower limit switch is released (platform is in the lower zone) |
| LD300 | green | S110.3; Lights if the ramp is fully opened |
| LD301 | green | Relay RKOLC; spare relay for an opener |
| LD302 | green | Relay RKOUC; spare relay for an opener |

Note: If some of the previous switches in the line of the safety circuit (eventually switches in the drive direction) opens, not only does the appropriate LED turns off, but also LEDs for all the other following inputs, see the schema in chapter 0 Schematics

## Emergency drive control unit

CU of emergency drive is an optional item of platform's equipement. This unit allows the user to drive to lower station in a case of main CU failure or other unexpected failure.
If necessary, service person can change the direction of drive from emegency button by switching the conductors on connectors for connection of main motors M1U/1 for M1D/1 and M2U/1 for M2D/1.
Pic. 13 Emergency drive CU


## Menu

Following pictures show examples of standard information shown on a display in both USER and SERVICE modes.

User menu with help hints during the fully opened ramp:


Shown hints on the display for in the lower stop
Example of an user menu when the platform is outside the landing stations:


Shown hints on the display for drive options in both directions
Service menu with info about voltage on the accumulators and current taken by active motors:


Display during the service mode drive

## General info

Menu can be used to analyse errors, for the maintenance or the system configuration. Following chapters illustrate and describe functions individually.
Menu has two scopes:

1. First one is limited (user menu) which is intended for end users and a technical support. Via this user menu error list can be read and also basic system settings are allowed.
2. Second scope is full view (service menu) which is intended ONLY for technicians and service workers. Via this service menu advanced parameter, behavior etc. settings can be done.

## Menu activation

You can enter the menu by pressing both buttons for drive up and drive down on a platform controller for time longer than 5 sec . Another way to enter the menu is by pressing the emergency STOP-button on a platform while at the same time pressing any drive button on a platform controller for time longer than 5 sec . To navigate between different menu items use drive up button (S20) on a platform coltroller, to enter an appropriate item use drive down button ( S 21 ) on a platform controller. To change the parameter of the item use the drive up button, to confirm the changed parameter and to exit from this parameter use drive down button (ENTER function). The active parameter is highlighted by an arrow on a display. To exit the menu it is necessary to select and confirm the parameter. (According to a position in the menu you might have to repeat this step few times).


## Note:

Default display language is english; in menu item "Language" other language can be selected.
To enter the service menu, switch S 2 on the main control board has to be in a correct position (switch on the left side).

## Menu structure

Menu is built from several items in the rotating list. Currently selected item is highlighted by the arrow on the right side of the item. The active item is always on the first row of the display. On the second row is the following item.
To navigate thru the menu and to change parameters, use drive up and drive down buttons on a platform controller. Use drive up button to navigate between different menu items. To activate current menu item press drive down button once. After activation, depending on the selected menu item, you can either change the parameter right away via drive up button or you can continue onto other items on this or lower menu level. You can easily change the value of the parameter of a selected menu item via drive up button. If the value is on a required level, it is necessary to confirm the change by pressing drive down button, which will also exit you from this menu item.

Service menu





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## Menu items

In the following table there are all main menu items listed. Also it shows if the item is in user menu or in service menu. This table also shows brief description of options, which are after main menu items.

| Menu item | User menu | Service menu | Description |
| :---: | :---: | :---: | :---: |
| User menu |  | X | In this item you can set, if you can enter the menu in user regime |
| Device info | X | X | This item shows basic device info - HW and SW version, serial number |
| Language | X | X | Display language can be set via this item |
| Factory number |  | X | This item can store custom factory number. |
| Error | X | X | Shows list of recorded errors, also allows to delete this list. |
| Ack. Error |  | X | If activated, this item acknowledges found errors. |
| Operation time |  | X | This item shows operation time and also allows to clear it. |
| Factory default |  | X | Activation of this item restores all parameters to factory default. |
| Radio version |  | x | Allows radio module version setting. |
| Motor config. |  | X | Allows to select the number of main motors if the platform has an automatic ramp and set the value of current of all motors |
| Config. door lock |  | X | Allows to set a time needed to open door lock and a version of an automatic opening |
| Overload control |  | X | Allows to activate/deactivate overload control, this item can also change basic overload setting |
| Options |  | x | Allows to set platform's special functions |

In the following paragraphs some of menu items will be described. Descriptions are structured as based in main menu. Factory default settings are underlined in following lists. These settings can be restored by resetting system to factory default settings.

## User menu

| Menu item | Value | Name |
| :--- | :--- | :--- |
| User menu | YES | Allows the user to enter the user menu |
|  | Blocked | Blocks the user from entering the user <br> menu |

## Device info

First row shows the type of device LIFTBOY, the version of HW and SW of CU.Second row shows factory number.

| Language <br> Menu item <br> Language | Value | Name | Description |
| :--- | :--- | :--- | :--- |
|  | CZE | Czech | One of these can be selected |
|  | $\underline{\text { ENG }}$ | $\underline{\text { English }}$ |  |
|  | GER | German |  |
|  | ESP | Spanish |  |
|  | FRA | French |  |
|  | PL | Polish |  |
|  |  |  |  |

## Factory number

A factory or identification number can be set by this menu item ( 5 digits). Command for the movement up can change current digit. The currently edited digit is underlined. Command for the movement down can move onto the next digit.

## Errors



## Acknowledge error

If the menu item is active, all errors that occured are acknowledged. Which means that an attempt for a deletion of the wrong code occurs so the normal function of the platform can be restored. Errors which must be acknowledged are mentioned in the table of errors. Platform's behavior during errors is described in the table of errors in chapter Fehler! Verweisquelle konnte nicht gefunden werden.. By acknowledging error item is not removed from the error list. If you want to do so, you need to clear whole list as was described before.

## Operation time

| Show op-time | h:m:s | $\begin{array}{l}\text { This item shows current operation } \\ \text { time in hrs:min:sec format }\end{array}$ |
| :--- | :--- | :--- |
| Reset op-time | Sure? |  |
|  | YES |  | \(\left.\begin{array}{l}By activation and selecting YES <br>


operation time counter is cleared.\end{array}\right\}\)| CAUTION: Operation time |
| :--- |
| counter can be cleared by the |
| authorized technician only. |

## Factory default

Activation of this item restores all parameters to factory default. Factory default settings are underlined in lists.

Radio controller version

| Menu item | Value | Name | Description |
| :---: | :---: | :---: | :---: | :---: |
| Radio version | 1 | TX-OMDE-V-01 | Allows radio module version <br> setting |
|  | 2 | Reserve for other <br> type of radio <br> controller |  |

Motor configuration
Menu item Value Name Description

Number of main motors

Number of 1 main motors 1

Number of $\underline{2}$ main motors 2
$\underline{2}$

Allows to set a number of main motors on exactly one motor. This is used on platforms ZP1 and ZP2

Allows to set a number of main motors on two motors. This is used on this platform ZP 5

El ramp:

| Aut. ramp | YES | Platform has an <br> automatic ramp |
| :--- | :--- | :--- |
| Aut. ramp | NO | If this parameter is active, platform has <br> an automaticaly tilted ramp. You have to <br> adjust wiring of the lower zone switch <br> on the CU |
| door |  |  |$\quad$| If this parameter is active, platform has |
| :--- |
| a door in lower station. You have to |
| adjust wiring of the lower zone switch |
| on the CU |

Current setting

| Main drive | $5-15$ | A | Sets the current setting of the main <br> motor, if there are two motors, this value <br> applies to each one. |
| :--- | :--- | :--- | :--- |
| Differ. M1/M2 | $10-100 \%$ | After exceeding this threshold, motor <br> stops and „DRIVE MOTOR CURRENT <br> LIMIT" error is shown on the display |  |
| Actuator R | $\underline{50}$ | Determines a possible percentage <br> difference in current taken by each <br> motor. If the taken current on one of the <br> mottors differs from the other by more <br> than the set percentage, motors stop <br> and a "LOAD DIFFERENCE M1/M2" <br> error is shown on the display |  |
| Sets overcurrent threshold for ramp |  |  |  |
| motor. |  |  |  |

Door lock configuration

| Menu item | Value | Name | Description |
| :---: | :---: | :---: | :---: |
| Time open. DL | $\begin{aligned} & 5-90 \\ & \underline{35} \end{aligned}$ | sec. | Allows to set the necessary time to open the door. <br> If an automatic door opener WALKY is in use, it is necessary to set this time to min 30 sec . |
| Impulse for DO | 0-30 <br> ㅇ (=manual openingt of the door) | sec. | Allows to set impulse length for an automatic door opener. <br> Factory default 0 is used for manual opening of the door. <br> If the platform has an automatic door opener WALKY, it is necessary to set this value on 1 . |
| Version DO | Standard |  | Allows to set appropriate version of the door opener. For detailed description see chapter 1.1.3 |

With blocking

## Overload control

| Menu item | Value | Name | Description |
| :---: | :---: | :---: | :---: |
| Overload $\mathrm{y} / \mathrm{n}$ | YES |  | Activation of this menu item and selecting YES activates platform's overload watch |
|  | No |  | Activation of this menu item and selecting NO deactivates platform's overload watch |
| Value 1 ( 100 Kg ) | Save value 100 Kg YES |  | By activation of this menu item and selecting YES, we save a corresponding load of 100 kg on a CU memory. |
|  | NO |  | This menu item is usually used for factory setting of a platform. |
| Value $2(350 \mathrm{Kg})$ | Save value 350 Kg <br> YES |  | By activation of this menu item and selecting YES, we save a corresponding load of 350 kg on a CU memory. |
|  |  |  | This menu item is usually used for factory setting of a platform. |

## Options

| Menu item | Value | Name | Description |
| :---: | :---: | :---: | :---: |
| Key con. platf. | Blocking drive |  | Activation of this menu item selects function of the key switch placed on platform's control panel in off position. In this case, the platform can not be moved up nor down by platform controller (S20/S21), but if the platform stays in the landig station, appropriate drive button on the platform can unlock the door lock and afterwards open the door, eventually open/close the ramp. |
|  | Block. <br> Drive+DL |  | Activation of this menu item selects function of the key switch placed on platform's control panel in off position. In this case, platform can not drive up nor down and it is not possible to cause an action of door lock and ramp's actuator(= drive buttons on the platform are blocked ). |
| Drive ext. con. | Permane. activ. |  | Activation of this menu item selects function of directional buttons on external controllers. In this case, the drive button has to be permanently activated in order to move the platform |
|  | Activated imp. |  | Activation of this menu item selects function of directional buttons on external controllers. In this case we can activate the motion of the platform by just pressing drive button. Then we can release it and platform drives to landing station. |

WARNING: this option can be activated only for platforms in the lift shaft.

## Radio wall mounted controllers

External wall mounted controllers communicate with the platform via radio signal. Standardly there is one in each station.
Each wall mounted RF controller is supplied by 2 pcs ob batteries type AAA.
Following table describes all used colours and blinking combinations of signalization on TX-OMDE-V-01 (Schmidiger) controller type :

| State LED | Description |
| :--- | :--- |
| Blinks in green | Connection is established and control messages are passed to CU - normal <br> condition. |
| Blinks in orange | Connection is lost. Keep button pressed - system will try to find not jammed signal <br> and reconnect. |
| Blinks in red | Batteries in this controller are low. Replacing is necessary. |
| Lights in green | Radio transmitter was succesfully connected to receiver during the programming |
| Lights in orange | Connection is established but the platform is not moving. <br> Possible causes: |

- Safety circuit is opened
- Error states e.i. motor overload, switch failure etc.
- Error messages are shown on the display.

Lights in red Connection is established but there is no answer from the platform. Platform is operated either from the platform controller or other remote RF controller.

## Pariing of Radio module Schmidiger: (if more or new radio controls have to be connected)

To start pairing press the button S 1 on the main control board for at least 3 seconds and release it. LED is regularly blinking faster when the module is active for pairing.


Pic. 20 Radio module Schmidiger
Then the appropriate external controller can be programmed. To do this push simultaneously the buttons for drive directions up and down. LED on the controller starts blinking with an orange color. After approx. 2.5 seconds LED stops blinking and lights in green. If this happens, the controller is programmed.
Another controllers coud be programmed same way. Or programming can be terminated. For the termination of programming push S1 button again (for at least 3 seconds). The termination of programming is acknowledged by fast blinking of LED on the radio module and returning to regular blinking on slow intervals.

## Emergency drive

The emergency drive is an optional equipment of platform. This unit allows the user to drive to lower stop in a case of main board failure or other unexpected failures.


Control of platform via emergency drive button S 1 is allowed only if platform can not be controlled in any standard way and it is necessary to extricate the user. Button S1 can not be used for ordinary use of platform! To use emergency drive it is necessary to firstly remove the cover of button S1 (which is placed above the main switch) and then press the button S1. After selecting this button the platform starts to move downwards. During the emergency drive all safety and control systems are out of function.
After reaching lower station it is necessary to release the emergency drive button and manually open the door or the platform ramp.
In a case of necessity, service worker can change the direction of movement of the platform from emergency drive by switching the conductors on connectors for connection of main motors M1U/1 for M1D/1 and M2U/1 for M2D/1 on the emergeny drive CU. It will be necessary to change the fuse on connectors K1 and K2 on value 30A.

1. Turn off main switch SK1.
2. Switch connectors of motor M1 from M1U to M1S1, from M1D to M1S2 and motor M2 from M2U to M2S1, from M2D to M2S2. Power supply of both motors must be changed!
3. Between connectors K1 and K2 insert fuse 5A.
4. Turn on main switch SK1 and platform immediately starts moving downwards.

For drive up (because of service reasons) it is necessary to switch M1S1 for M1S2 and M2S1 for M2S2 (for motor M1: M1U to M1S2, M1D to M1S1 etc. for M2), use fuse 30A. Power supply of both motors must be


## Error and operating messages on display

It is necessary to acknowledge (reset) errors F1xx after removal of their cause. Acknowledging them doesn't mean automatic deletion. Deletion must be done separately. If the error can not be acknowledged the reason is that the root cause of this error is still present and was not repaired.
Errors F1xx shown below must be reset in the menu after they have been repaired. Reset can be done even by turning off via the main switch.

| Error ID | Shown on display | Description | How to repair |
| :---: | :---: | :---: | :---: |
| F101 | TRANSISTOR SHORT. T4 | Faulty transistor- there is voltage on its output although it should not (faulty control, punctured transistor and so on) | Try to reset the error message by switching off (for at least 2 sec ) and then turning on the main switch. Afterwards, give a command for movement and if this error shows up again, it is |
| F102 | TRANSISTOR FAILURE T4 | Transistor failure - did not close (faulty control, transistor failure and so on) | necessary to replace the whole CU Try to reset the error message by switching off (for at least 2 sec ) and then turning on the main switch. Afterwards, give a command for movement and if this error shows up again, it is necessary to replace the whole CU |
| F103 | LOAD DIFFERENCE M1/M2 | Exceeding the set difference in current of main motors M1 and M2 | Try to reset the error message by switching off (for at least 2 sec ) and then turning on the main switch, remove uneven load on the platform, select drive up on any controller, motors should level it; manually level different height of motors, read the current taken by motors during the drive and check the setting of difference of main motors M1 and M2, and then check setting the difference in current taken |
| F104 | ACTUATOR FAILURE M1 | Motor M1 is not active (current on the motor M1 $=0 \mathrm{~A}$ ) | Try to reset the error message by switching off (for at least 2 sec ) and then turning on the main switch, measure the voltage on motors terminals, on directional relays of appropriate motor; check the cable connection between motor and CU, replace the CU , replace the motor |
| F105 | ACTUATOR FAILURE M2 | Motor M2 is not active (current on the motor M2 $=0 \mathrm{~A}$ ) | Try to reset the error message by switching off (for at least 2 sec ) and then turning on the main switch, measure the voltage on motors terminals, on directional relays of appropriate motor; check the cable connection between motor and CU , replace the CU , replace the motor | switching off (for at least 2 sec ) and then turning on the main switch. Afterwards, give a command for movement and if this error shows up again, it is necessary to replace the whole CU

Following errors are recorded in EEPROM but they don't block operation of platform - don't need
acknowledgement. They're shown as long as the error is present or/and corresponding control buttons activated.

| Error ID | Shown display text | Description | How to repair |
| :---: | :---: | :---: | :---: |
| F201 | EMERGENCY STOP <br> SI: S7X | STOP button pressed, emergency input open $S 7 X=0$ | Deactivate STOP button by turning it in the direction of arrows, if the STOP button is not pressed, Check NC-contact by STOP button, connecting cable towards the CU, emergency input S7X |
| F202 | UP SAF.LIMIT SW <br> SI: S22U | Active upper safety limit switch S22U=0 | By movement of the platform with emergency drive in the direction down release the safety switch S22U, check the adjusting of the upper stop, limit switch S27 and safety limit switch S22U, stop element on a motor ACT2 has to firstly press the limit switch S27 and by doing so to stop the motion of the platform; the emergency switch is not activated, check NC-contacts of the switch S22U, connecting cables towards CU, emergency input S22U |
| F203 | RESERVE SAF.C.SW <br> SI: SR1 | Contact of the main safety circuit is open, emergency input SR1=0 | Check the input bridge connection on terminals SR1 on CU |
| F204 | ASYNCHR. ACTUAT. <br> SI: SR2, M1, M2 | asynchronous movement of main motors, contact SR2 $=0$ open. (standardly this switch is not used, emergency input SR2 has to be bridged) | If SR is used: check the even reaction of main motors, check the setting of differential switch SR 2; if the switch is not activated, check NC-contact of the switch SR2, connecting cables towards the CU, emergency input SR2 |

## Error ID Shown display text

Description

FAILURE ZON. SW. SI: SZU, SZ/SZL

One or both zone switches are in incorrect position With no regard towards the setting in the menu El. ramp YES/NO
SZU=1^SZL=1
$\vee \mathrm{SZU}=1 \wedge \mathrm{SZ}=1$

One of limit switches is in incorrect position (for
UNDEF.STATION SW SI: S27, S28 example, both limit switches are active at the same time) (S27-2=0 $\wedge$ S28-2=0) $\vee(S 27-3=1 \wedge$ S28-3=1)

Safety edges hit an obstacle in the drive direction down, this message shows up only in combination with the drive down command

Ctrl DOWN $=1 \vee$ Wall ctrl DOWN=1 V RF- DOWN=1 $\wedge$ SENS EDGE DOWN= 0

Safety edges hit an obstacle in the drive direction up, this message shows up only in combination with the drive up command
Ctrl UP=1 $\vee$ Wall $\operatorname{ctrl} \mathrm{UP}=1 \vee$ RF-UP=1 $\wedge$ SENS EDGE UP= 0

## How to repair

In this error state, the drive is allowed in both directions if the platform is outside the station, after it reaches the station it is prevented from leaving and it is not allowed to automatically lower the ramp or to open the door; check the setting of zone switches, if the platform is in one of the stops, the contacts of the zone switch has to be in closed position and contacts of the other one in permanetly opened position; if the setting of the zone switches is correct, check NCcontact of the switches and connecting cables towards the CU on inputs SZU, ZL/SZ Check the setting of limit switches, check the mechanical function of limit switches, check inner wiring S27/S28, check cable connection of the switches with CU , check the wiring in CU

Remove obstacle that prevents the platfrom from movement down, if necessary release the obstacle by driving up, check the setting of appropriate limit switches of lower safety edges; if the emergency switches are not active, check the NC-contacts of switches EKD 1 till 4 and their serial connection, check connecting cables on an input EKD and a bridge-connection on terminals RD
Remove the obstacle that prevents the platfrom from movement up, check the setting of appropriate limit switches of upper safety edges; if the emergency switches are not active, check the NC-contacts of switches EKU 1 and 2 and their serial connection, check the connecting cables on an input EKU and a bridge-connection on terminals S11S

$$
\begin{array}{cl}
\text { Error ID } & \text { Shown display text } \\
& \\
\text { F303 } & \begin{array}{l}
\text { FAILURE UP. LOCK } \\
\text { SI: 0/SDU }
\end{array}
\end{array}
$$

FAIL: UP.ZON./SW PRESSV SI:SZU/S27

FAILURE UP. SW. PRESS $\vee$ SI: S27

FAIL. LOWER LOCK SI: 0/SDL
F.LOWER ZON/SP

PRESS^ SI: SZL/S28

While giving command for drive up in upper station, the activation of coil and unlocking of the door lock did not occur or control contacts of the lock did not switch -
(ODU=1, SDU=0)
Ctrl UP=1 V Wall ctrl UP=1
V RF-UP=1 for more than 1 sec .
^ S27-3=1 ^ S27-2=0 ^
SZU=1
$\wedge(\mathrm{ODU}=0 \vee \mathrm{SDU}=1)$
Upper limit switch S27 is actuated, but upper zone switch SZU is open and drive up is selected (example: after reaching the upper stop, the zone switch SZU remains open)
S27-3=1 $\wedge$ S27-2 $=0 \wedge$ SZU=0 $\wedge$ Ctrl UP=1 $\vee$ Wall ctrl UP=1 $\checkmark$ RF-UP=1

Contacts of the upper limit switch are not in its usual position
(S27-3=0 $\wedge$ S27-2=0)
V (S27-3=1 $\wedge$ S27-2=1)
Displays during drive up command, that is Ctrl UP=1 $\vee$ Wall ctrl UP=1 V RF-UP=1
While giving command for drive down in lower stop, the activation of coil and unlocking of the door lock did not occur, or contacts of the door lock did not switch
(ODL=1, SDL=0)
Ctrl DOWN=1 $\vee$ Wall ctrl DOWN=1 V RF-DOWN=1 for more than 1 sec .
^S28-3=1 ^ S28-2=0
$\wedge$ SZL=1
$\wedge(\mathrm{ODL}=0 \vee \mathrm{SDL}=1)$
Lower limit switch S 28 is actuated, but lower zone switch SZL is open and drive down is selected (example: after reaching the lower stop, the zone switch SZ remains open)
S28-3=1 ^ S28-2=0 ^ SZL=0
$\wedge \mathrm{Ctrl}$ DOWN $=1 \vee$ Wall ctrl DOWN=1 $\vee$ RF- DOWN=1

## How to repair

Check the wiring and mechanical function of door lock, check the connection cables of the door lock, correct function of the coil of door lock DLU and appropriate contacts SDU,ODU

## When this error is present on a platform with automatic door opener NICE WALKY, the impulse for door opener is not coming, the door has to be opened manually!

Check the setting of upper stop, stop element on motor ACT2 has to firstly release the zone switch $\mathrm{SZU}=1$ and then actuate the limit switch S27-3=1 and S27-2= 0 , check the switching functionality of S27 and SZU, check contacts of switches S27 and SZU, connecting cables on inputs S27, SZU in the CU

Check the function, setting and connection of the limit switch S27, check the contact system in this switch, check connecting cable on the input S27

Check the wiring and mechanical function of door lock, check the connection cables of the door lock, correct function of the coil of door lock DLL and appropriate contacts SDL,ODL When this error is present on a platform with automatic door opener NICE WALKY, the impulse for door opener is not coming, the door has to be opened manually!

Check the setting of the lower stop, stop element on the motor ACT1 has to firstly release the zone switch $\mathrm{SZL}=1$ and then actuate the limit switch S28$3=1$ and $\mathrm{S} 28-2=0$, check the switching functionality of S28 and SZL, check the contacts of switches S28 and SZL, connecting cables on inputs S28,

\begin{tabular}{|c|c|c|c|}
\hline Error ID \& Shown display text \& Description \& How to repair <br>
\hline \& \& while the setting in the menu is el.ramp - NO \& SZL in the CU <br>
\hline F308

F309 \& \begin{tabular}{l}
F.LOWER ZON/SP PRESS $\wedge$ SI: SZ/S28 <br>
FAILURE LOWER SW. PRESS $\wedge$ SI: S28

 \& 

Lower limit switch S28 is actuated, lower zone switch SZ is open and drive down is selected (example: after reaching the lower stop, zone switch SZ did not open S28-3=1 ^ S28-2 $=0 \wedge$ SZ=0 $\wedge$ Ctrl DOWN=1 $\vee$ Wall ctrl DOWN=1 $\vee$ RF- DOWN=1 while the setting in the menu is el. ramp - YES Contacts of upper limit switch are not in its standard position (S28-3=0 $\wedge$ S28-2=0) (S28-3=1 $\wedge$ S28-2=1), <br>
Displays during drive down command, that is Ctrl DOWN $=1 \vee$ Wall ctrl DOWN=1 $\vee$ RF- DOWN=1

 \& 

Check the setting of the lower stop, stop element on the motor ACT1 has to firstly release the zone switch $\mathrm{SZ}=1$ and then actuate the limit switch S28$3=1$ and $\mathrm{S} 28-2=0$, check the switching functionality of S28 and SZ, check the contacts of switches S28 and SZ, connecting cables on inputs S28, SZ in the CU <br>
Check the function, setting and wiring of the limit switch S28, check the contact system in this switch, check connecting cable and on the input S28
\end{tabular} <br>

\hline
\end{tabular}

| Error ID | Shown display text | Description | How to repair |
| :---: | :---: | :---: | :---: |
| F401 | CURRENT LIMIT <br> DRIVE MOTOR M1 | Overcurrent of the main drive motor M1 | Main motor M1 takes more current that is allowed (set), remove uneven load on platform, decrease the load, read the taken current of the motor during the drive and compare it with set nominal current in menu item „Set currents" „Main drive", check mechanical functions, replace CU , replace the motor |
| F402 | CURRENT LIMIT <br> DRIVE MOTOR M2 | Overcurrent of the main drive motor M2 | Main motor M2 takes more current that is allowed (set), remove uneven load on platform, decrease the load, read the taken current of the motor during the drive and compare it with set nominal current in menu item „Set currents" „Main drive", check mechanical functions, replace CU , replace the motor |
| F403 | CURRENT LIMIT <br> ACT - RAMP | Overcurrent of the ramp's actuator | Ramp's actuator takes more current than is allowed (set), remove obstacle/load from the ramp, read the taken current of the motor during the closing of the plaatform ramp and compare them with set nominal current in „Set current" „Actuator R", check mechanical functions, replace CU , replace the motor |

## Liftboy 5

F412

F413

EMPTY BATTERY STOP

OVERLOAD LIFT
SI: SU, TENS. INPUT

Voltage on the batteries dropped under $19,4 \mathrm{~V}$, the drive up is blocked

CU evaluated overload of the platform via start-off current

## Version 05/2017

Reach the lower landing station and let the batteries to charge properly; if the batteries can not be fully charged, it is necessary to replace them, (note:all the batteries have to be replaced) Movement is allowed only in the down direction. After overload detection, it is necessary to drive to lower stop and reduce the load on the platform; if it does not exceed the allowed load, it is necessary to check mechanical functions and current taken by motors, or perform new overload calibration (see chap.
Fehler! Verweisquelle konnte nicht gefunden werden.)

Following errors are not recorded in the error message list and it is not necessary to reset them in menu. They are shown only during the command from platform or radio controller.

| Shown display text | Description | How to repair |
| :--- | :--- | :--- |

## How to repair




## Operation message list - help hints on display

In the following table there are helpfull hints for the user of the platform.

| HELP HINT |  |
| :--- | :--- |
| DRIVE DOWN | Signalization during the drive down from wall mounted controllers WALL CTRL <br> EXTERNAL CONTROL |
| DOWN, or radio controllers - signal RF-D. |  |


| HELP HINT |  |
| :---: | :---: |
| LOW BATTERY | Signalization when the voltage on batteries drops below $20,4 \mathrm{~V}$; decrease in voltage is also signalized by quick interrupted acoustic signal. |
| BATERRY IS NOT | There is no signal from the input of charging accumulator, charger is disconnected or damaged, this state is also signalized by interrupted acoustic signal. In this case it is necessary to immediately restore the charging of batteries or to switch off the main switch and make sure that the main switch is accessible afterwards. Otherwise the batteries would become fully descharged and damaged. |
| $\wedge$ UNLOCK DOOR <br> VDRIVE DOWN | Message shown in upper landing station when the door is closed and locked (ODU=0 $\wedge$ $\operatorname{SDU}=1$ ), when $\mathrm{KLU}=0$ and no drive button is activated. Serves as a hint for a possibility to unlock the door lock or in a case of automatic version to open the door by pressing the drive up button or by drive down button to leave the upper landing station. <br> Ctrl up $=0 \wedge$ Ctrl down $=0 \wedge$ Wall ctrl up $=0 \wedge$ Wall ctrl down $=0 \wedge$ RF- UP $=0 \wedge$ RF down $0 \wedge$ S27-3=1 $\wedge$ S27-2 $=0 \wedge$ SZU $=1 \wedge \mathrm{ODU}=0 \wedge \mathrm{SDU}=1$ |
| $\wedge$ DRIVE UP <br> VUNLOCK DOOR | Message shown in lower landing station when the door is closed and locked (ODL=0 $\wedge$ SDL=1), when KLL=0 and no drive button is activated. Serves as a hint for a possibility to unlock the door lock or in a case of automatic version to open the door by pressing the drive down button or by drive up button to leave the lower landing station. <br> Ctrl up $=0 \wedge$ Ctrl down $=0 \wedge$ Wall ctrl up $=0 \wedge$ Wall ctrl down $=0 \wedge$ RF- UP $=0 \wedge$ RF down $0 \wedge$ S28-3 $=1 \wedge$ S28-2 $=0 \wedge$ SZL $=1 \wedge$ ODL $=0 \wedge$ SDL=1 |
| UP. DOOR OPEN SI: 0/SDU | Message shown in upper landing station when the door is open (ODU $=1 \wedge \mathrm{SDU}=0$ ), relay $\mathrm{KLU}=0$ which means that door lock is not active anymore and no drive button is pressed. <br> In a case of manual version this serves as a warning that upper door is open. <br> In a case of automatic version the door should automatically close, be fully opened or blocked by an obstacle. <br> If the automatic opener did not start to move with the door, check the functionality of relay KRKOUO and wiring of el. opener. <br> Ctrl up $=0 \wedge$ Ctrl down $=0 \wedge$ Wall ctrl up $=0 \wedge$ Wall ctrl down $=0 \wedge$ RF- UP $=0 \wedge R F$ down $0 \wedge$ S27-3=1 $\wedge$ S27-2=0 $\wedge \mathrm{SZU}=1 \wedge \mathrm{ODU}=1 \wedge \mathrm{SDU}=0$ |
| LOW. DOOR OPEN SI: 0/SDL | Message shown in lower landing station when the door is open (ODL=1 $\wedge$ SDL=0), relay KLL=0 which means that door lock is not active anymore and no drive button is pressed. <br> In a case of manual version this serves as a warning that lower door is open. <br> In a case of automatic version the door should automatically close, be fully opened or blocked by an obstacle.. <br> If the automatic opener did not start to move with the door, check the functionality of relay KRKOLO and wiring of el. opener. <br> Ctrl up $=0 \wedge$ Ctrl down $=0 \wedge$ Wall ctrl up $=0 \wedge$ Wall ctrl down $=0 \wedge$ RF- UP $=0 \wedge$ RF down $0 \wedge$ S28-3=1 $\wedge$ S28-2=0 $\wedge$ SZL $=1 \wedge$ ODL=1 $\wedge$ SDL=0 |
| UP. ST. LOCK-OPEN VDRIVE DOWN | Message shown in upper landing station when the door is closed (or in a case of automatic version the door is opening) $\mathrm{ODU}=1 \wedge \mathrm{SDU}=0$, relay $\mathrm{KLU}=1$ which means door lock is unlocked and no drive command was given. <br> In a case of manual version this serves as a warning that upper door is unlocked and we can open the door. <br> In a case of automatic version 1 „Standard" the door should automatically open or be fully opened. Serves as a hint for a possibility to speed up the closing of the door by pressing drive down button S 21 on the platform. <br> If the automatic opener did not start to move with the door, check the functionality of relay KRKOUO and wiring of el. opener. <br> Ctrl up $=0 \wedge$ Ctrl down $=0 \wedge$ Wall ctrl up $=0 \wedge$ Wall ctrl down $=0 \wedge$ RF- UP $=0 \wedge$ RF down $0 \wedge$ S27-3=1 $\wedge$ S27-2 $=0 \wedge$ SZU=1 $\wedge \mathrm{ODU}=1 \wedge \mathrm{SDU}=0$ |
| LO. ST. LOCK-OPEN $\wedge$ DRIVE UP | Message shown in lower landing station when the door is closed (or in a case of automatic version the door is opening) $\mathrm{ODL}=1 \wedge \mathrm{SDL}=0$, relay KLL=1 which means door lock is unlocked and no drive command was given. <br> In a case of manual version this serves as a warning that lower door is unlocked and we can open the door. |


| HELP HINT |  |
| :---: | :---: |
|  | In a case of automatic version 1 „Standard" the door should automatically open or be fully opened. Serves as a hint for a possibility to speed up the closing of the door by pressing drive up button S20 on the platform. <br> If the automatic opener did not start to move with the door, check the functionality of relay KRKOLO and wiring of el. opener. <br> Ctrl up $=0 \wedge$ Ctrl down $=0 \wedge$ Wall ctrl up $=0 \wedge$ Wall ctrl down $=0 \wedge$ RF- UP $=0 \wedge$ RF down $0 \wedge$ S28-3 $=1 \wedge$ S28-2=0 $\wedge$ SZL=1 $\wedge$ ODL=1 $\wedge$ SDL=0 |
| LOWER STATION $\wedge$ DRIVE UP | Message shown in the lower stop if the ramp is fully open. Serves as a hint for a user to safely leave the platform or as an option for closing of the ramp by any drive up button. Ctrl UP $=0 \vee$ Wall ctrl UP $=0 \vee$ RF- UP $=0$ S28-3 $=1 \wedge$ S28-2=0 $\wedge$ SZL=1 Ramp closed act $=1 \wedge$ ramp closed $\operatorname{sig}=0 \wedge$ ramp open $=1$ |
| $\wedge$ DRIVE UP OPEN RAMP | Message shown in the lower stop. Serves as a hint for leaving the platform by opening the ramp via any drive down button or to drive up after selecting any drive up button. $\mathrm{S} 28-3=1 \wedge \mathrm{~S} 28-2=0 \wedge \mathrm{SZL}=1$ <br> Ramp closed act $=1 \wedge$ ramp closed $\operatorname{sig}=1 \vee 0$ <br> Shown until the ramp is fully opened |
| ^BLOCK. DOOR <br> VDRIVE DOWN | Message shows only if the menu item „Version DO" is set to „With blocking". Message shown in upper landing station when the door/lock is unlocked (ODU=1 $\wedge$ $\operatorname{SDU}=0$ ), relay $\mathrm{KLU}=1$ and no drive command was given. Door should automatically open or be fully opened. <br> Serves as a hint for a possibility to speed up the closing of the door by pressing drive down button S 21 on the platform or to keep the door in its fully opened position by pressing drive up button S 20 on the platform for time longer than 3 sec . <br> For more see the process and message in help $\wedge$ ACTIV. DOOR <br> Ctrl up $=0 \wedge$ Ctrl down $=0 \wedge$ Wall ctrl up $=0 \wedge$ Wall ctrl down $=0 \wedge$ RF- UP $=0 \wedge R F$ down $0 \wedge$ S27-3 $=1 \wedge$ S27-2 $=0 \wedge \mathrm{SZU}=1 \wedge \mathrm{ODU}=1 \wedge \mathrm{SDU}=0$ |
| $\wedge$ DRIVE UP <br> $\checkmark$ BLOCK. DOOR | Message shows only if the menu item „Version DO" is set to „With blocking". Message shown in lower landing station when the door/lock is unlocked (ODL=1 $\wedge$ SDL=0), relay KLL=1 and no drive command was given. Door should automatically open or be fully opened. <br> Serves as a hint for a possibility to speed up the closing of the door by pressing drive up button S20 on the platform or to keep the door in its fully opened position by pressing drive down button S 21 on the platform for time longer than 3 sec . For more see the process and message in help $\wedge$ ACTIV. DOOR Ctrl up $=0 \wedge$ Ctrl down $=0 \wedge$ Wall ctrl up $=0 \wedge$ Wall ctrl down $=0 \wedge$ RF- UP $=0 \wedge$ RF down $0 \wedge$ S28-3=1 $\wedge$ S28-2 $=0 \wedge$ SZL=1 $\wedge$ ODL=1 $\wedge$ SDL=0 |
| $\wedge$ ACTIVE DOOR | Message shows only if the menu item „Version DO" is set to „With blocking". <br> If any of these three options is fulfilled: <br> 1. After reaching upper landing station, during the opening of the door or if the door is open, drive up button S20 was activated for time longer than 3 sec and this blocked upper door in opened position (see description above $\wedge$ BLOCK. DOOR) <br> Unblocking followed by closing of the door is possible after pressing drive up button S20 on the platform for time longer than 3 sec . <br> 2. By pressing drive down button S21 on the platform the unlocking of the door lock ended, this sped up the closing of the door. <br> If during the closing of the door drive up button S20 was activated on the platform for time longer than 3 sec , the door starts to open again. Then after another press of the button it starts to close and so on. <br> 3. After the time for opening of the door runs out and automatic command for closing of the door is given (function of the door opener switched into "Standard version") and the door did not close even after third automatically generated impulse, it is possible to try (if the opener's CU is alright) to open/close the door by pressing drive up button S20 on the platform for time longer than 3 sec . |


|  | HELP HINT |
| :---: | :---: |
|  | During the time when the opener is in „Standard version", you also get corresponding messages on the display, such as UP. DOOR OPEN/SI: 0/SDU. <br> Generally, this message serves as a hint for a possibility to activate the movement of the door in any direction and , if the door is already moving, to change the direction of the movement. <br> Note: if we choose the direction for the opening, the door stays in its fully opened position until next command from button S20 on the platform is given. <br> Relay KLU=0 (not active) <br> Ctrl up $=0 \vee$ Ctrl up $=1 \vee$ Ctrl down $=0 \vee$ Wall ctrl up $=0 \vee$ Wall ctrl up $=1 \vee$ Wall ctrl down $=0 \vee$ RF- UP $=0 \vee$ RF- UP $=1 \vee$ RF down $0 \wedge$ S27-3 $=1 \wedge$ S27-2=0 $\wedge$ SZU $=1 \wedge$ $\mathrm{ODU}=1 \wedge \mathrm{SDU}=0$ |
| $\checkmark$ ACTIVE DOOR | Message shows only if the menu item „Version DO" is set to „With blocking". If any of these three options is fulfilled: <br> 1. After reaching lower landing station, during the opening of the door or if the door is open, drive down button S 21 was activated for time longer than 3 sec and this blocked lower door in opened position (see description above $\wedge$ BLOCK. DOOR) <br> Unblocking followed by closing of the door is possible after pressing drive down button S21 on the platform for time longer than 3 sec . <br> 2. By pressing drive up button S20 on the platform the unlocking of the door lock ended, this sped up the closing of the door. <br> If during the closing of the door drive down button S 21 was activated on the platform for time longer than 3 sec , the door starts to open again. Then after another press of the button it starts to close and so on. <br> 3. After the time for opening of the door runs out and automatic command for closing of the door is given (function of the door opener switched into "Standard version") and the door did not close even after third automatically generated impulse, it is possible to try (if the opener's CU is alright) to open/close the door by pressing drive down button S21 on the platform for time longer than 3 sec . <br> During the time when the opener is in „Standard version", you also get corresponding messages on the display, such as UP. DOOR OPEN/SI: 0/SDU. <br> Generally, this message serves as a hint for a possibility to activate the movement of the door in any direction and ,if the door is already moving, to change the direction of the movement. <br> Note: if we choose the direction for the opening, the door stays in its fully opened position until next command from button S21 on the platform is given. <br> Relay KLL=0 (not active) <br> Ctrl up $=0 \vee$ Ctrl down $=1 \vee$ Ctrl down $=0 \vee$ Wall ctrl up $=0 \vee$ Wall ctrl down $=1 \vee$ Wall ctrl down $=0 \vee$ RF- UP $=0 \vee$ RF down $1 \vee$ RF down $0 \wedge$ S27-3=1 $\wedge$ S27-2 $=0 \wedge$ $\mathrm{SZU}=1 \wedge \mathrm{ODU}=1 \wedge \mathrm{SDU}=0$ |

## Schematics




Wiring scheme without emergency drive relay unit



[^0]:    User menu

