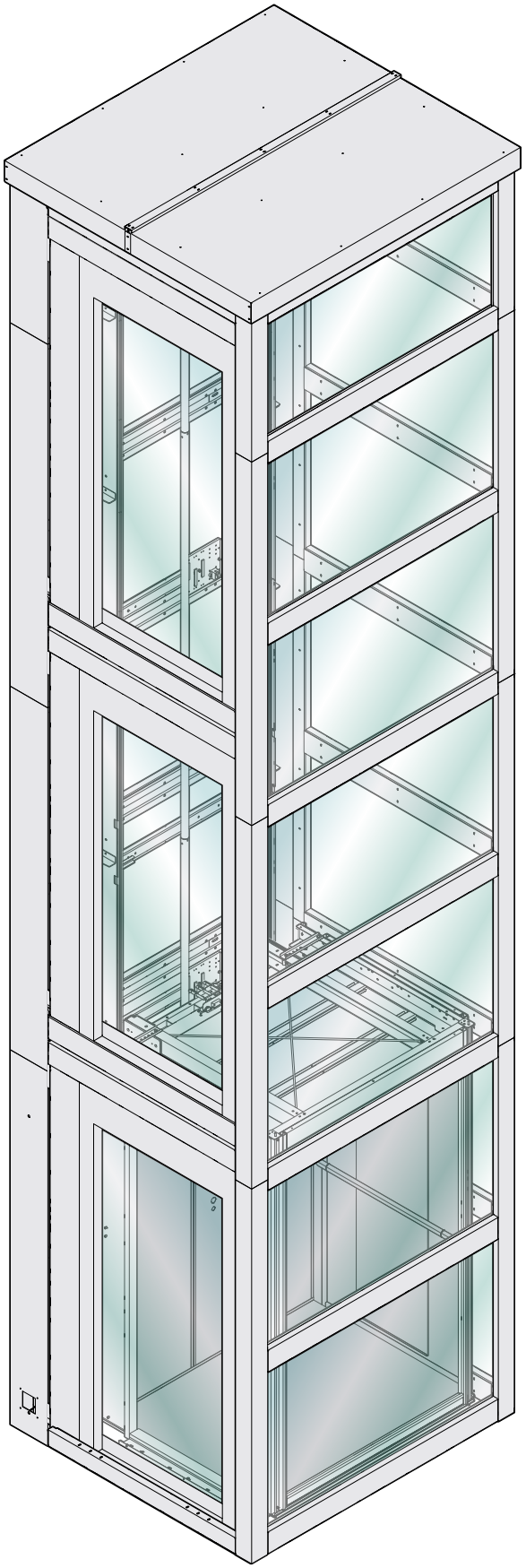
EN

SimpLift®

in Cross 50.2 structure and masonry shaft

Electric screw driven Homelift with car



ELECTRICAL EQUIPMENT (U.D.E.C.) INSTALLATION AND DIAGNOSTIC INSTRUCTIONS

(Rev.0)

AREALIFTING®
THE VERTICAL MOBILITY MANUFACTURER

20250508

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1. Manual reading guide

IMPORTANT!
EN: Translation of the original instructions This product may only be commissioned if these instructions are available to you in an official EU language that you understand and you have understood the contents. If this is not the case, please contact your Lifting Italia S.r.l. contact partner.

READ THIS MANUAL CAREFULLY
BEFORE INSTALLING AND USING THE PRODUCT
Retain the technical documentation near the lifting platform for the entire lifecycle of the product. In case of change of ownership, the technical documentation must be provided to the new user as an integral part of the product.

1.01. Preliminary information

NOTICE	
	This product must be installed and put into operation according to the provisions and regulations in force. Improper installation or improper use of the product can cause damage to people and property, as well as cause the warranty to lapse.
	FOLLOW THE SUGGESTIONS AND RECOMMENDATIONS TO OPERATE IN SAFETY. Any unauthorized modification can compromise the safety of the system, as well as the correct operation and the life of the machine. If you have any doubts regarding the correct understanding of the information and contents contained in this manual, contact LIFTING ITALIA S.r.l. immediately.
	QUALIFIED PERSONNEL. The product covered by this documentation can only be installed by qualified personnel, in compliance with the attached technical documentation, above all in compliance with the safety warnings and the precautions contained therein.

1.02. Personal security and risk recognition

This manual contains safety rules that must be observed to safeguard personal safety and to prevent damage to the property.

The indications to be followed to guarantee personal safety are highlighted by a triangle symbol while those to avoid material damage are not preceded by the triangle. The hazard warnings are shown as follows and indicate the different levels of risk in descending order.

RISK CLASSIFICATION AND RELATIVE GRAVITY OF DAMAGE		
DANGER	The symbol indicates that the failure to comply with appropriate safety measures causes death or serious physical injury.	RISK LEVEL
WARNING	The symbol indicates that the failure to observe the corresponding safety measures can cause death or serious personal injury.	
CAUTION	The symbol indicates that failure to observe the relevant safety measures can cause minor or moderate personal injury or damage to the device.	
NOTICE	It is not a symbol of security. It indicates that the failure to comply with relevant safety measures can result in property damage.	
INFORMATION	It is not a symbol of security. It indicates important information.	

If there are multiple levels of risk, the danger warning always indicates the highest one. If a warning is drawn with a triangle to warn to the risk of injury to persons, the risk of possible property damage may also be caused at the same time.

WARNING	
	During installation / maintenance of the platform, the safety functions are temporarily suspended. Therefore all necessary precautions must be taken to avoid personal injury and / or damage to the product.

2. Safety and information Signs

2.01. DANGER Signs

GENERAL DANGER	ELECTRICITY DANGER	DANGER FLAMMABLE MATERIAL
DANGER OF FALL BY A LEVEL	DANGER SUSPENDED LOADS	DANGER OF CRUSHING

2.02. PROHIBITION Signs

GENERIC PROHIBITION	FORBIDDEN TO STEP ON	PROHIBITED TO WALK ON OR STOP IN THIS AREA

2.03. MANDATORY Signs

OBLIGATORY TO WEAR THE PROTECTION HELMET	OBLIGATORY TO WEAR SAFETY SHOES	OBLIGATORY WEAR THE PROTECTIVE GLOVES
OBLIGATORY TO WEAR EYE PROTECTION	OBLIGATION TO WEAR THE AUDIO PROTECTION	

2.04. Information symbols and infographics

MARK	DRILL AND/OR SCREW	CUTTING AND/OR GRINDING
MEASURE	APPLY RIVETS	USE SUCTION CUPS
USE THE HAMMER	LEVELING	USE HOIST

	INFORMATION Symbol that identifies information that is useful to the installer but is not mandatory for the installation, nor does it pose a risk to the user..
	IMPORTANT! Symbol that identifies information that is important but is not mandatory for the installation, nor does it pose a risk to the user.
	ELECTRICAL CONNECTIONS Symbol that identifies the connection of an electrical component.

3. Liability and warranty conditions

RESPONSIBILITY OF THE INSTALLER	
IMPORTANT!	
	Installers are responsible for ensuring compliance with safety procedures at work and any health and safety regulations in force in the country and on the site where the assembly is carried out.
	The persons authorized to carry out installation, maintenance, and rescue operations are those in possession of an elevator maintenance authorization certificate, issued according to the regulations in force in the country where the assembly is carried out.

The elevator / platform (and each of its components) is produced and intended to be installed as described in the attached project drawing and in this manual; any divergence from the prescribed procedure may affect the operation and safety of the system and cause the immediate cancellation of the warranty.
Any modification or variation made to the project and the to the assembly Instructions must be documented in detail and referred to LIFTING ITALIA S.r.l., in order to allow the company an adequate assessment. Under no circumstances can a modified system be activated without the express authorization of LIFTING ITALIA S.r.l.
The elevator / platform must only be used in the way envisaged by the system and illustrated in the relative manuals (transportation of people and / or things, maximum loads, cycles of use, etc.). LIFTING ITALIA S.r.l. assumes no responsibility for damage to persons and property caused by improper use of the system.

	Pictures and images on this manual are for illustration purposes only.

4. General requirements and installation site management

4.01. General requirements

IMPORTANT!

For more information on safety, liability and warranty conditions, receipt and storage of material on site, packaging, waste disposal, cleaning and storage of the product; refer to the “SAFETY INSTRUCTIONS AND SITE MANAGEMENT” manual.

NOTICE

PRELIMINARY CHECKS.
Once the packaging has been opened, check that the product is intact and has not been damaged during transport. Should any anomalies or damage be found, please dispatch them in writing on the transport document to the transport company, giving written notice to LIFTINGITALIA S.r.l.

WARNING

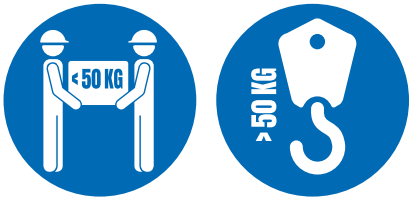
SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:

1. Always secure tools and any objects against falling;
2. Pay the utmost attention to all the steps described in this;
3. While assembling the parts making up the system or after installation, be careful of any sharp burrs (machining residues).

- Before proceeding with the installation, it is necessary to remove any rubble and material deposited during the construction of the shaft.
- Only nuts and bolts included in the supply must be used.
- The bags containing the screws must be opened in correspondence with the respective operating phases indicated in this manual.
- The instructions described in this manual refer to a reinforced shaft, to a fastening with mechanical expansion plugs of the stud type. For the use of plugs in masonry other than the reinforced concrete see the attachment to this manual. For the shafts with metal framework, we proceed by replacing the plugs with normal screws.
- In these instructions and on the wiring diagram, the stops are indicated with 0, 1, (2, 3 etc.), meaning “0” the lowest stop: the numbers on the push-button panels may be different according to the user’s needs (for example - 1, 0, etc.)..

CAUTION

The assembly must be performed by a MINIMUM 2 people

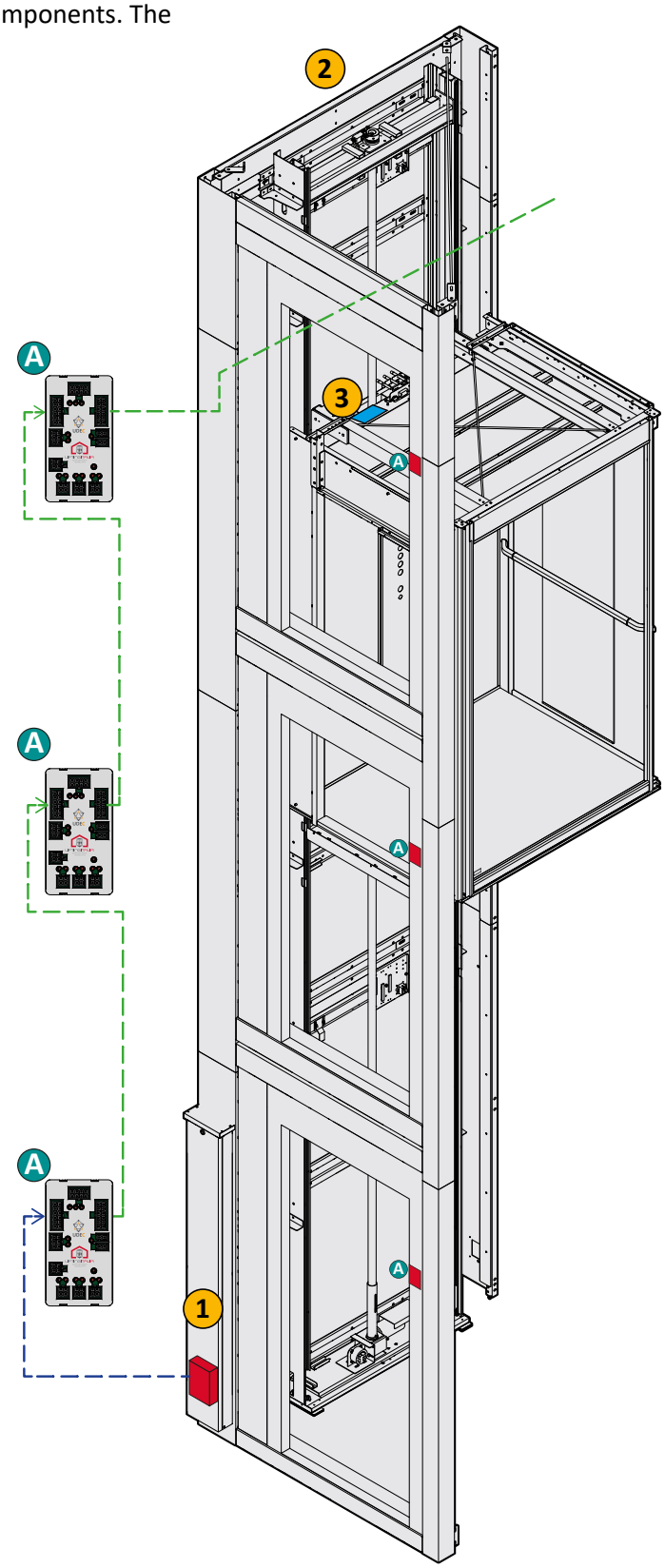


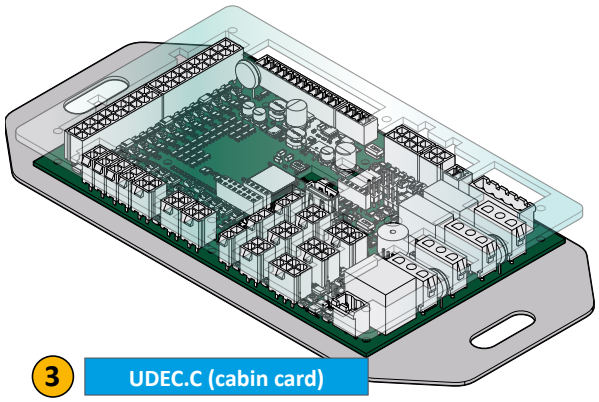
Use a suitable lifting equipment for handling the components if the load is greater than 50kg

5. System description and features

The electrical part for the SIMPLIFT lifting platform is designed to achieve the best possible integration of electrical and mechanical components. The fundamental components that make it up are:

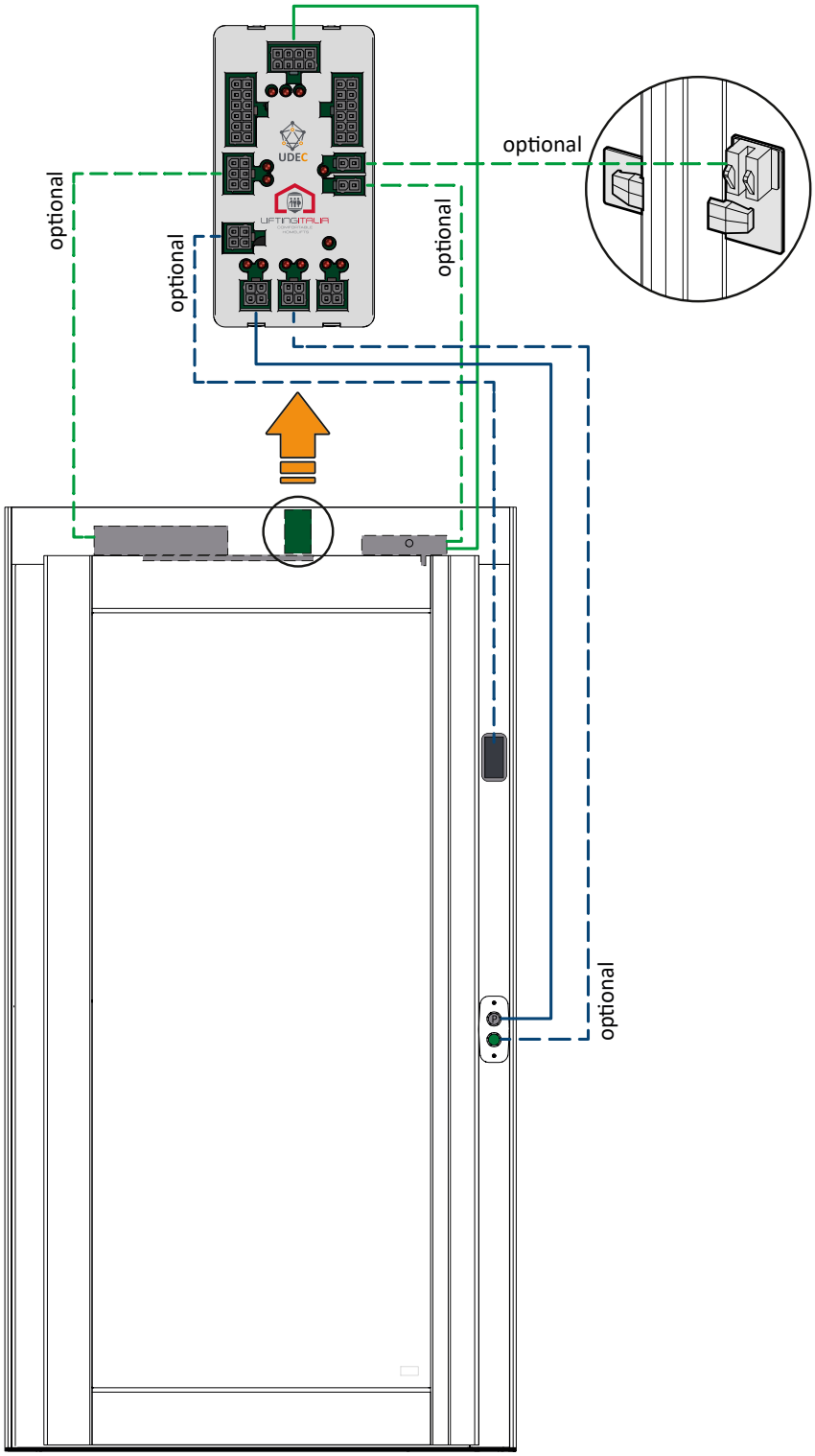
1. Main control panel located at the lowest door level. UDEC control panel: based on a microcontroller board capable of communicating, via CAN bus, with the door and cabin boards; the board is equipped with a human-machine interface (HMI) that allows the system configuration to be changed and advanced diagnostics to be carried out;.
2. Pre-wired compartment trunk with a single in-out connection between the individual landing doors. Each landing door is equipped with its own board that manages the local electrical consumers: buttons, signalling, safety contacts, display, operator, etc.
3. Pre-wired cubicle power lines: consisting of a single flexible flat cable and the cubicle board to which the local consumers are connected: switchboard, position sensors, operators, etc.





3 UDEC.C (cabin card)

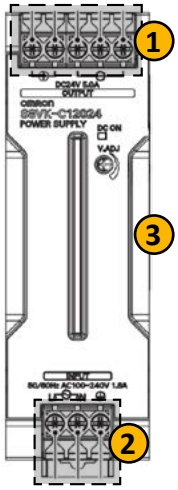
5.01. Electrical door connections



- Wire the electrical components as they are installed.
- LAST connect the compartment backbone to the switchboard.

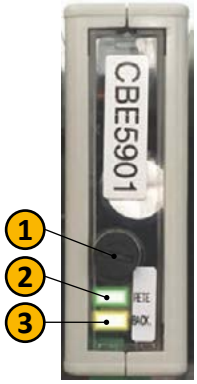
6. Main electronic devices

6.01. Auxiliary power supply (PS1)



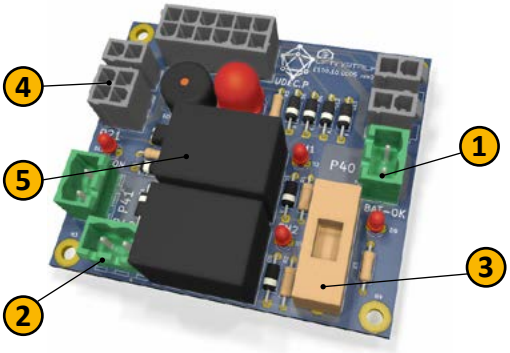
1. Input for 230V AC.
2. 24V DC output for control and auxiliary devices.
3. Output voltage trimmer.

6.02. Battery charger (PS2)



1. 6A fuse for batteries.
2. Supply voltage present.
3. Emergency power on.

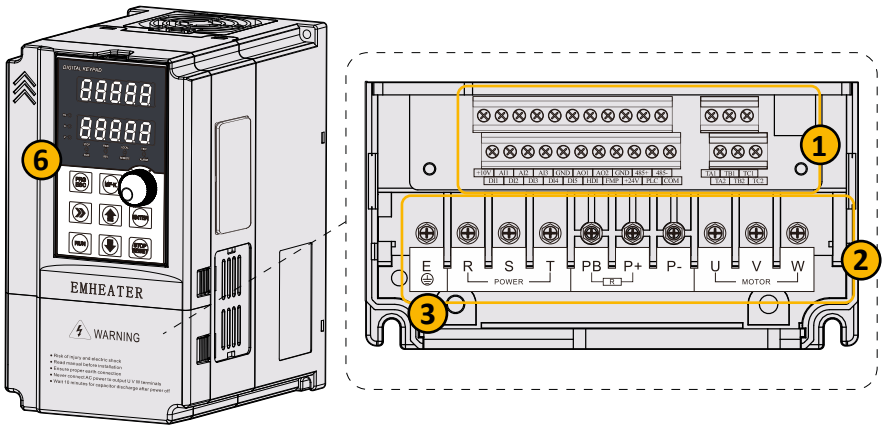
6.03. Pit board UDEC.P



1. Battery connection.
2. Emergency motor connection.
3. Battery fuse.
4. Pit safety connections.
5. LED and pit access buzzer.

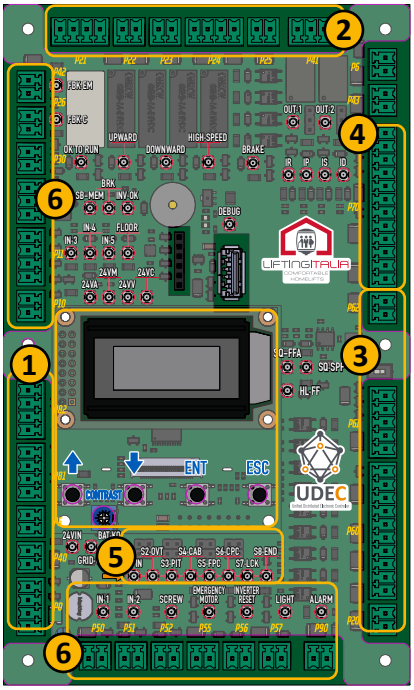
6.04. Inverter Emheather

1. Control circuit terminals.
2. Main circuit terminals.
3. Grounding.
4. Power terminals.
5. Control terminals.
6. Display - buttons.
7. Configuration Dipswitches.



6.05. Main board UDEC.M (see §16 for specifications)

1. Human Machine Interface (HMI).
2. Movement commands.
3. Connections to the compartment.
4. Cabin connections.
5. Safety manifold.
6. Auxiliary inputs/outputs.



6.06. Floor door card UDEC.D (see §17 for specifications)

P1 P3 Input/output connections to other floor boards.

P2 Lock contacts.

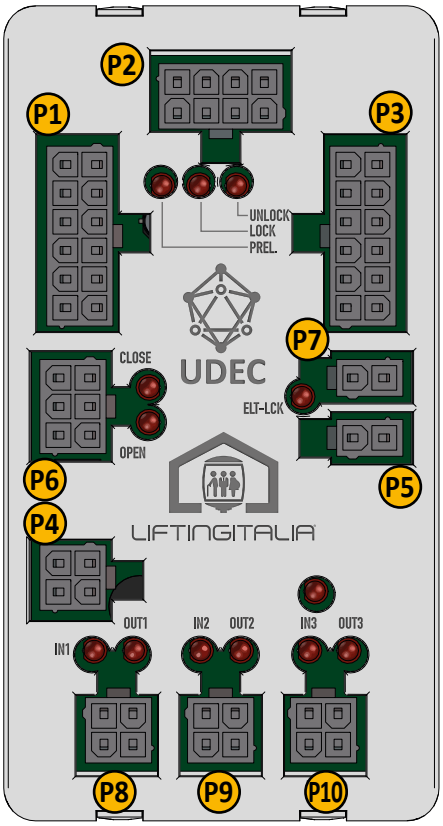
P4 Display.

P5 Electric lock output.

P6 Automatic door operator.

P7 Electric lock input.

P8 P9 P10 Pushbuttons/Key switches.



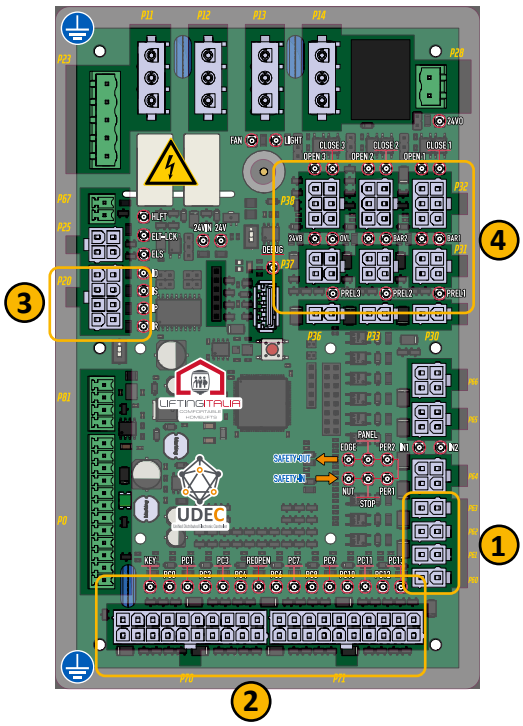
6.07. Platform / Cabin Card UDEC.C (see §18 for specifications)

1 Cabin safeties.

2 Push-button panel.

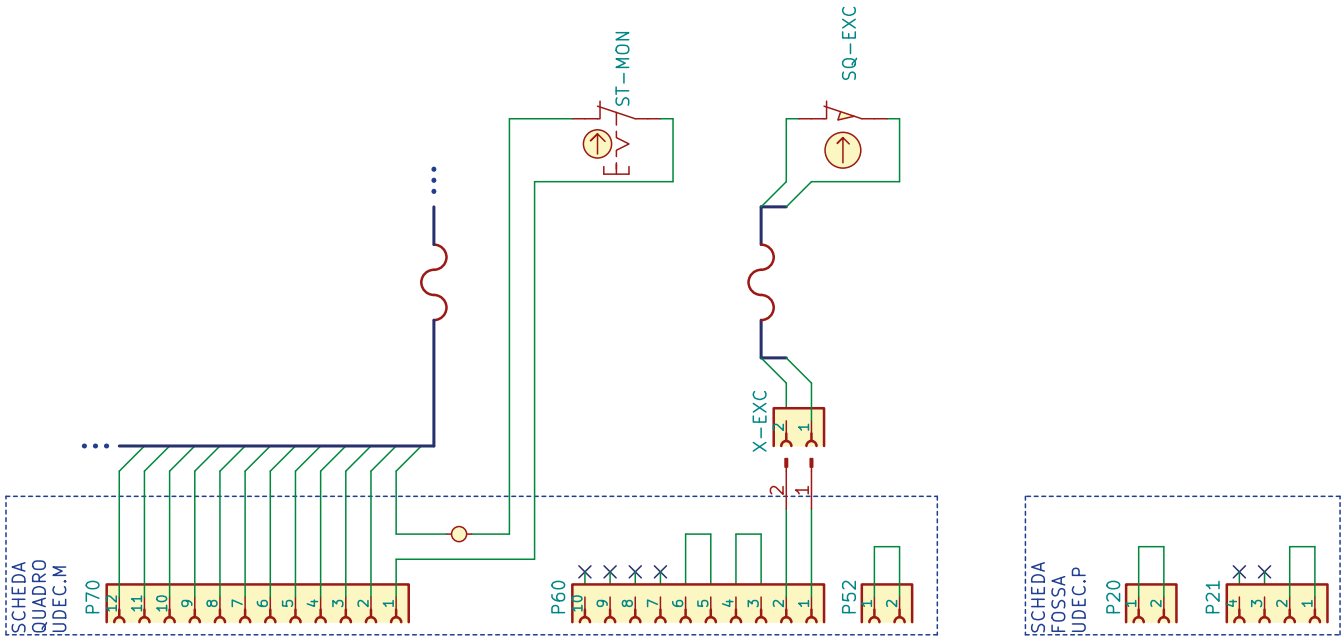
3 Position sensors.

4 Cabin doors.



7. Connections for the first start-up

D. Make all connections between the cabin and the switchboard as shown on the circuit diagram.
E. Temporarily bridge the contacts of equipment not yet connected using the supplied terminals and connect the maintenance fixture according to the instructions below:



LEGEND	
ST_MON	Emergency stop on maintenance button
MAN-DISC	Drop-down button on the maintenance knob
MAN-SAL	Up button on the maintenance knob
SA-MAN	Maintenance selector switch (contact closed > maintenance on)

F. Make all earth connections.
G. Check that all safeties are closed and that the emergency stop on the fixture is working properly.
H. To activate operation in maintenance, set the selector switch to the MAN position. In maintenance operation, the system moves only via the SB_DN and SB_UP controls: pressing the former causes the car to move downwards, while the latter causes it to move upwards.

	To switch from maintenance to normal, please refer to § 11 OPERATING MODE
	During the assembly manoeuvre, there is no control of the position of the cabin. **Only if all magnets have been correctly installed and the system is rephased**, the movement in maintenance is limited to the travel of the system, between the extreme planes.

8. Magnet arrangement

ATTENTION	
⚠	TWO FITTINGS ARE REQUIRED: one in the machine room in front of the control panel and the other near the sensors.

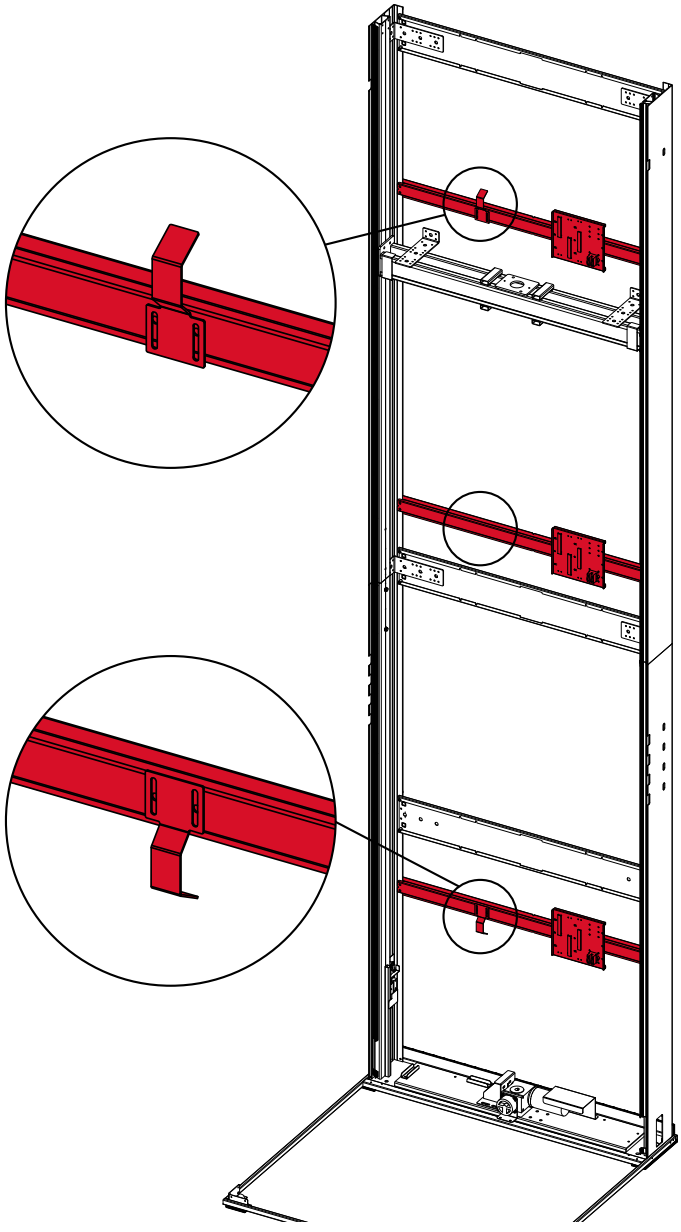
8.01. Magnet support brackets - contacts - slides

Pay attention to the positioning of the magnet support brackets:

At the head end, the bracket must be positioned with the extra-stroke contact mounted downwards (lower extra-stroke).

Any brackets WITHOUT the pre-assembled contact must be positioned along the shaft.

IN THE SLOT, the bracket must be positioned with the extra-stroke contact mounted upwards (upper extra-stroke).



8.02. Magnets - installation

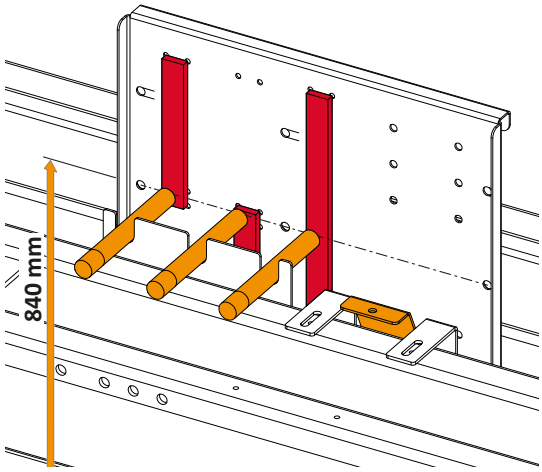
Adjust the positioning of the magnets:

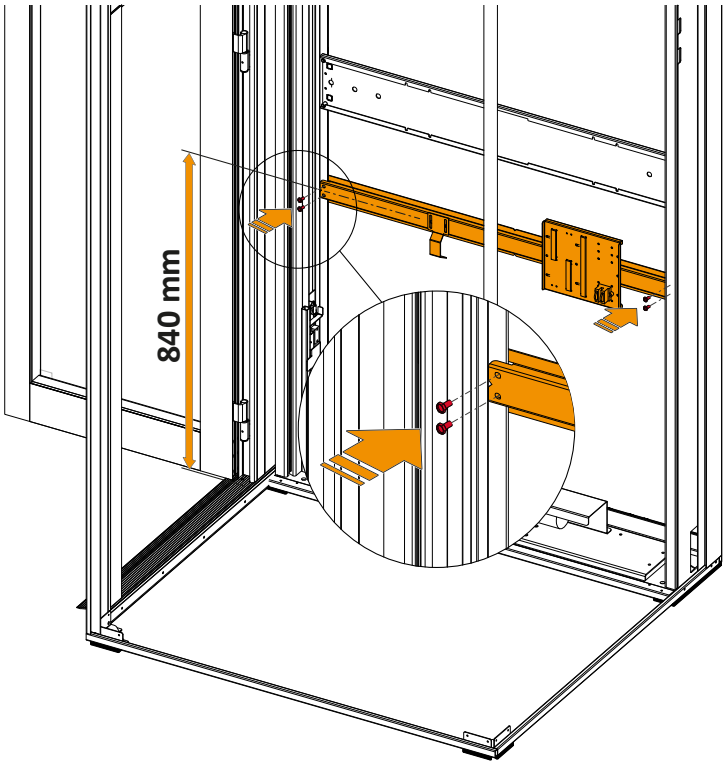
(1) When the system is being serviced, bring the car exactly to the floor (floor and car thresholds aligned);
(2) Ensure that the magnet support brackets are positioned 840 mm above floor level.
The plate must be at the cigar and floor sensor, located on the back of the fixture;
(3) Adjust the position of the magnets (IS, ID and IR) as shown;
(4) Repeat the procedure for the other floors.
(X) IS ascent sensor: gradually approach the 150 mm magnet to the sensor from above, stopping as soon as the corresponding LED on the car board lights up;
(Y) ID descent sensor: gradually bring the 150 mm magnet closer to the sensor from below, stopping as soon as the corresponding LED on the car board lights up;
(Z) IP floor sensor: arrange the 300 mm magnet so that the sensor is halfway up the magnet;
(W) If doing so would result in frequent re-levelling to the floor, bring the ID and IS stop magnets slightly closer together vertically.

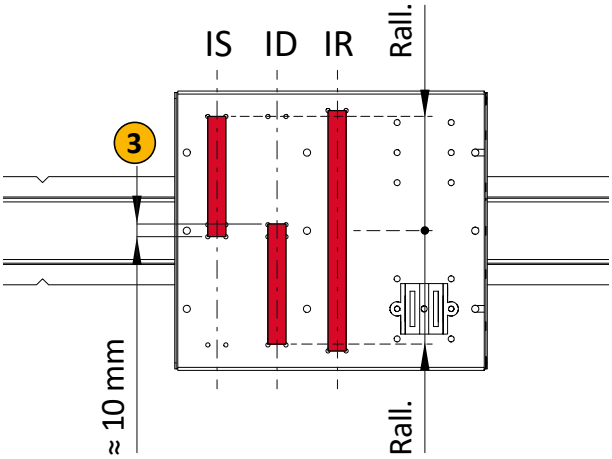
8.03. Slackening magnets

(J) Uphill slowdown: Position the 150 mm magnet at the IS sensor, below the uphill stop magnet and at least 200 mm away from it.
(K) Slowing down: Position the 150 mm magnet at the ID sensor, above the down-stop magnet and at least 200 mm away from it.

	The IR magnet is only positioned at the bottom.







9. Acoustic signal

During operation, the platform can emit beeps to warn the user:

NORMAL MODE	
CONTINUOUS	Platform/cabin safeties have been activated. Check the safety edges.
CONTINUOUS BIP	Overload.
2 BIP	The user is trying to move the platform but one of the doors is not completely closed or locked.
3 BIP	The user is trying to move the platform but one of the emergency buttons is activated.

MAINTENANCE / TESTING PROCEDURES	
SLOW BIP	the machine is moving in maintenance
FAST BIP	the machine is moving into test mode

10. Reset & Soft reset

There are two types of reset commands:

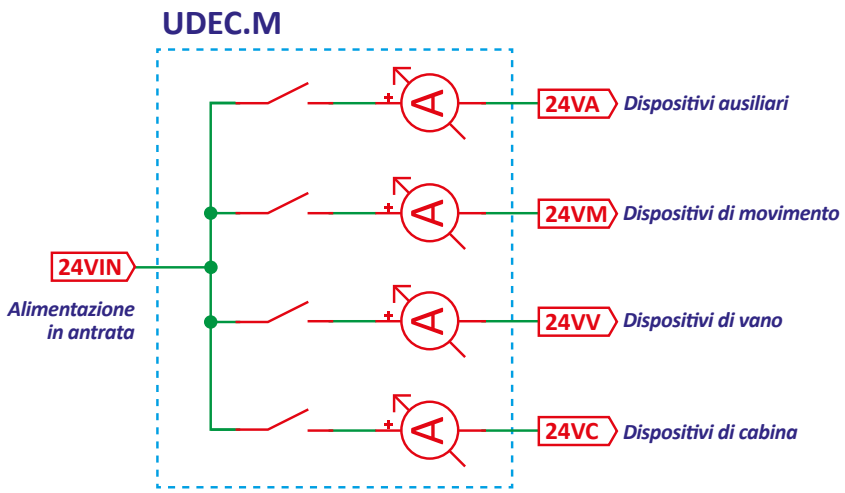
RESET	Press both arrow buttons on the HMI inside the control panel for more than three seconds. The display will show a message to confirm that the operation is running ("RESET RUNNING"). See §19 to check which errors are restored by this command.
SOFT RESET	Press both call buttons on the platform/cabin handset for more than five seconds. The maximum number of soft resets is three; once this number is reached, a standard reset is required. See §19 to check which errors are restored with this command.

11. Modes of operation

The technician can vary the operating modes using the HMI (see §20).
The switch between normal and blackout mode is automatic, depending on the network and platform status.

<table>
<tr><td>NORMAL</td><td>If platform commands are enabled and no error is present, local and remote commands can be used to move the platform.</td></tr>
<tr><td>BLACK-OUT</td><td>During a blackout, the operation of the platform depends on its location:
• floor: the platform will remain on the floor until the main power supply is restored. All commands will unlock the floor door.
• not on the landing: after a few seconds all commands received from the hand control will cause the platform to move downwards to the nearest landing at low speed.</td></tr>
<tr><td>MAINTENANCE</td><td>Once in this mode, floor and remote commands are disabled and the platform can only be operated via the arrow buttons on the HMI or via the first two buttons on the hand control (press ESC until 'MAINTENANCE ACTIVE' appears on the display). If the platform has been rephased, it moves between the limit positions in the same way as in normal mode. Otherwise, the upper limit is determined by the overtravel safety switch. The lower limit is always determined by the IR and ID sensors and magnets.
ATTENTION
 
• This mode of operation can cause physical harm to the user/ technician or damage the machine.
• Extreme care must be taken when using these functions.</td></tr>
<tr><td>TESTING</td><td>As in maintenance mode, all local and remote commands are disabled.
• Overtravel testing: the platform can be controlled via the arrow buttons on the HMI; it will only move at low speed, ignoring the limit switch status. During movement the platform will emit an acoustic signal to warn the technicians. Use this mode to check the overtravel switch or if there are problems with the position sensors.</td></tr>
</table>

12. Power Management

The UDEC.M main board receives the 24V DC power supply and distributes it to the other electronic devices by monitoring the voltage outputs for short circuits or overloads.	

If a fault is detected, the main board switches off one or more outputs depending on the fault (see §19 ERR_ A00x). When switching on, the main board switches on the four power outputs in sequence to detect any short circuits.
The other electronic boards (door and cabin) have intrinsic mechanisms for power management. In the event of errors, these boards are automatically reset by the main board for a limited number of times. Once the maximum number of automatic resets has been exceeded, the main board requires a reset (see §19 ERR_Dn05).

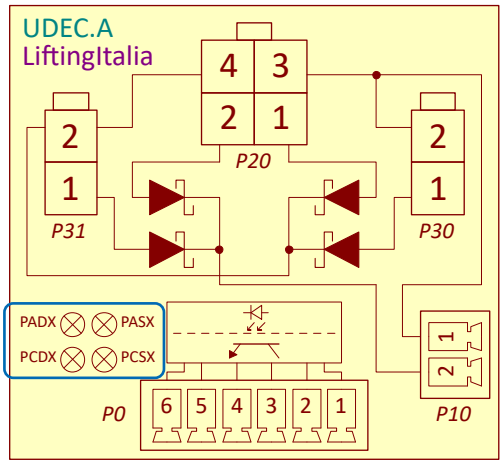
This is the quick troubleshooting procedure for power supply errors:
a. disconnect all connectors from the board;
b. reset the card;
c. connect the plugs one at a time and wait for the error to occur;
d. when the error occurs, check the devices and cables connected to that connector.

13. CAN communication management

Intelligent boards communicate on a CAN bus network by exchanging messages regarding input-output status, commands, diagnostics, etc.
The protocol has inherent mechanisms to automatically detect and recover communication errors. In the event of a temporary disconnection of a remote board from the bus (UDEC.D or UDEC.C), the main board UDEC.M may inhibit certain functionalities, but these are automatically restored when the remote board becomes active again. If the number of detected communication faults exceeds a defined threshold, the main board UDEC.M requests a reset (see §19 ERR_Dn11).

14. LEDs on the UDEC.A board

The following picture and table explain the meaning of the LEDs on the UDEC.A port board:



LED UDEC.A	LED UDEC.C (2nd door)	Contact	Signal Label	Description
PADX	PC11 (PC7)	SQ-PCA-DX	A	Right-hand door open
PCDX	PC10 (PC6)	SQ-APC-DX	B	Right-hand door closed
PASX	PC13 (PC9)	SQ-PCA-SX	C	Door left open
PCSX	PC12 (PC8)	SQ-APC-SX	D	Door left closed

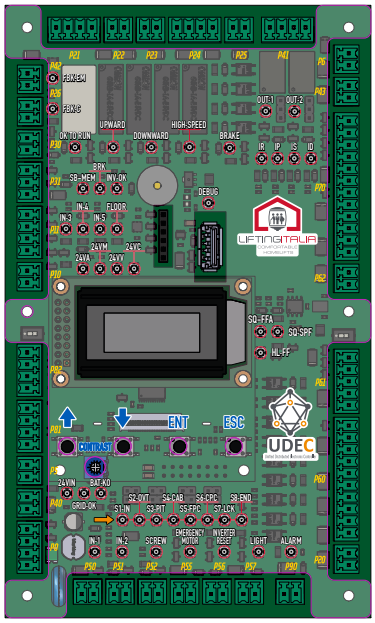
15. Insulation tests

A. Position the cabin between two floors and check whether the safety chain is closed.
B. Disconnect the control panel from the mains supply by opening the power panels**(QS**, **QF-3**, **QF-4**).
C. Disconnect all battery terminals.
D. To avoid incorrect results or damage to the equipment, disconnect power from devices connected to **PE**: inverters, LED power supplies, etc.
E. Disconnect the **PE** conductor from the **'-'** terminal of the **PS1** power supply; the terminal is shown on the circuit diagrams.
F. Ensure that all low-voltage circuit breakers/fuses inside the cabinet are closed**(QF-24** and **QF-SER**).
G. Measure the resistance values between **PE** and the terminals shown in the table below. The table shows the test voltage**(V**) and the minimum insulation resistance between the circuits**(MΩ)**.

	12L and 12N	LC-L and LC-N	UP, VP (WP)	+24VO	+24VA +24VM +24VV +24VC
PE	500V > 1MΩ	500V > 1MΩ	500V > 1MΩ	250V > 0.5MΩ	250V > 0.5MΩ

H. Reset all connections.

16. Main board input/output diagnostics UDEC.M



The standby status refers to the downstairs platform ready to answer the call.
In case of incorrect status, for all inputs/outputs:

- Check the voltage directly on the connector pin;
- Check whether the connector / cable is correctly inserted in the plug;
- Try a temporary bypass or removing the wire to see if the LED status changes.

16.01. Inputs

P0.4	Label	24VIN
	Description	Input voltage supply 24V DC
	STANDBY status	ON
	if state NOT CORRECT	A. Check switches QS and QF-24. B. Check the PS1 power supply. C. Check the platform power supply.

P0.2	Label	GRID-OK
	Description	230V AC mains voltage detected
	STANDBY status	ON
	if state NOT CORRECT	A. Check fuses QF-220. B. Check the platform power supply. C. Check the PS1 power supply.

P0.1	Label	BAT-KO
	Description	Batteries discharged or disconnected
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the state of the batteries. B. Check the connection of the batteries to the control panel. C. Check the status of the LEDs on the battery charger.

P20.1	Label	S1-IN
	Description	Chain of Safety - INPUT
	STANDBY status	ON
	if state NOT CORRECT	A. Check the QF-SER switch.

P60.1	Label	S2-OVT
	Description	Safety chain - EXTRA RUNNING
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of input S1-IN. B. Check the SQ-EXC safety switches. C. Check the connections between the control panel and the switches.

P61.2	Label	S3-PIT
	Description	Safety chain - Safety devices in FOSSA
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of input S2-OVT. B. Check safety switches SQ-PEF and SQ-FF. C. Check the connections between the control panel and the switches.

P70.2	Label	S4-CAB
	Description	Safety chain - safety devices in CABIN
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the S3-PIT input. B. Check the safety inputs of the car at UDEC.C (see §18). C. Check the connections between the control panel and the cabin.

P60.5	Label	S5-FPC
	Description	Safety chain - preliminary contact Floor doors
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the S4-CAB input. B. Check the SQ-APP-Pn safety contacts. C. Check the connections between the control panel and the floor doors.

P70.4	Label	S6-CPC
	Description	Safety chain - preliminary contact Cabin doors
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the S5-FPC input. B. Check the cabin door safety inputs on UDEC.C (see §18) C. Check the connections between the control panel and the cabin.

P60.3	Label	S7-LCK
	Description	Security Chain - LOCKS Floor Doors
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of input S6-N.C. B. Check the SQ-BLO-Pn safety contacts. C. Check the connections between the control panel and the floor doors.

P43.2	Label	S8-END
	Description	Safety Chain - TERMINAL
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the S7-LCK input

P61.3	Label	SQ-SPF
	Description	Not in use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P61.4	Label	SQ-FFA
	Description	Safe pit device - auxiliary contact (ON with safe pit engaged)
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the status of the SQ-FFA contact on the safe pit device. B. Check the connections between the control panel and the contact.

P70.9	Label	ID
	Description	Position reed input - ID (downward direction)
	STANDBY status	ON
	if state NOT CORRECT	A. Check the alignment between the sensor and the magnet. B. Check the connections between the board and the sensor. C. Check the input ID on the UDEC.C. board.

P70.10	Label	IS
	Description	Position reed input - IS (upward direction)
	STANDBY status	ON
	if state NOT CORRECT	A. Check the alignment between the sensor and the magnet. B. Check the connections between the board and the sensor. C. Check the input IS on the UDEC.C. board.

P70.11	Label	IP
	Description	Position reed input - IP (door area)
	STANDBY status	ON
	if state NOT CORRECT	A. Check the alignment between the sensor and the magnet. B. Check the connections between the board and the sensor. C. Check the IP input on the UDEC.C. board.

P70.12	Label	IR
	Description	Position reed input - IR (zero)
	STANDBY status	ON
	if state NOT CORRECT	A. Check the alignment between the sensor and the magnet. B. Check the connections between the board and the sensor. C. Check the IR input on the UDEC.C. board.

P30.2	Label	OVL
	Description	Overload switch input
	STANDBY status	◉ OFF
	if state NOT CORRECT	A. Check the platform load. B. Check the wiring between terminal block X0 and pressure switch contact SP-P01 according to the circuit diagram. C. Check the wiring inside the input panel according to the wiring diagram.

P31.1	Label	THM
	Description	Oil + motor thermal input
	STANDBY status	❙ ON
	if state NOT CORRECT	A. Check oil and engine temperature. B. Check the wiring between terminal strip X0 and thermostat contact ST-P01 / PTC-P01 according to the circuit diagram. C. check the wiring inside the input panel according to the wiring diagram.

P31.2	Label	THO
	Description	Not in use
	STANDBY status	◉ OFF
	if state NOT CORRECT	—

P26.2	Label	FBK-C
	Description	Return signal from contactors (OFF when OK-TO-RUN is ON)
	STANDBY status	❙ ON
	if state NOT CORRECT	A. Check whether any of the contactors are stuck. B. Check the status of 24VA. C. Check the connections between the control panel and the contactors.

P42.2	Label	FBK-B
	Description	Return signal from safety relay KA-RIL
	STANDBY status	❙ ON
	if state NOT CORRECT	A. Check the internal control panel connections between the input and KA-RIL. B. Check the correct functioning of KA-RIL.

P11.2	Label	IN-4
	Description	Not in use / switched on if MAINTENANCE ACTIVE (see $PONTS)
	STANDBY status	◉ OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P11.3	Label	IN-5
	Description	Not in use / On if SALT MAINTENANCE request is activated (see $PONTI)
	STANDBY status	◉ OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P11.4	Label	IN-6
	Description	Not in use / Switched on if maintenance down request is activated (see $PONTI)
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P50.2	Label	IN-1
	Description	Not in use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P51.2	Label	IN-2
	Description	Not in use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P52.2	Label	IN-3
	Description	Not in use.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P90.1	Label	ALARM
	Description	Alarm button status
	STANDBY status	OFF
	if state NOT CORRECT	A. Check whether the alarm button on the hand control is pressed. B. Check the connections between the control panel and the hand control.

16.02. Outputs

P40.1	Label	24VA
	Description	Auxiliary output 24 V DC
	STANDBY status	ON
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel.

P5.1	Label	24VM
	Description	Motion output 24 V DC
	STANDBY status	ON
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel.

P60.7	Label	24VV
	Description	Compartment output 24 V DC
	STANDBY status	ON
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel.

P70.5	Label	24VC
	Description	Cabin output 24V DC
	STANDBY status	ON
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel.

P22.2	Label	OK-TO-RUN
	Description	Command for power contactors and brake enable. ON during movement or if the platform is not at ground level.
	STANDBY status	OFF
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel. C. Check the connection of P21.4 and P20.2.

P24.4	Label	UPWARD
	Description	Control for SALT pump contactors. ON during upward movement.
	STANDBY status	OFF
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel. C. Check the status of 24VM and the connection of P20.2.

P24.3	Label	DOWNWARD
	Description	Command for the downward movement solenoid valve... ON during downward movement.
	STANDBY status	OFF
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel. C. Check the status of 24VM and the connection of P20.2.

P24.2	Label	HIGH SPEED
	Description	Control for HIGH SPEED solenoid valve. ON during high speed movement.
	STANDBY status	OFF
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel. C. Check the status of 24VM and the connection of P20.2.

P25.2	Label	BRAKE
	Description	Not in use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P41.3/4	Label	KA-IP
	Description	Replica IP sensor
	STANDBY status	ON
	if state NOT CORRECT	A. Check the connections in the control panel between the panel board and KA-RIL. B. Check jumper JP1 on the panel board according to the circuit diagram.

P41.1/2	Label	KA-ISD
	Description	Replica IS / ID sensors
	STANDBY status	ON
	if state NOT CORRECT	A. Check the connections in the control panel between the panel board and KA-RIL. B. Check jumper JP2 on the panel board according to the circuit diagram.

P10.1	Label	FLOOR
	Description	Output for 'Cabin on floor' light. ON with cabin on any floor.
	STANDBY status	ON
	if state NOT CORRECT	A. Check position sensor inputs (IR, IS, ID). B. Check the connections inside the control panel. C. Check the status of 24VA.

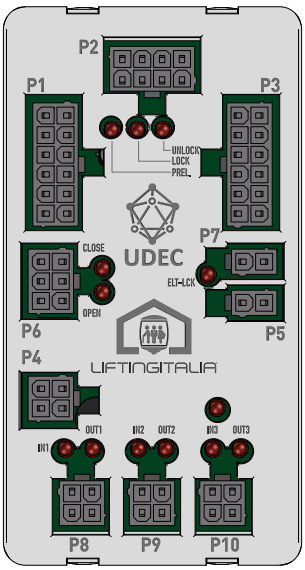
P55.1	Label	OUT-1
	Description	Not in use.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P56.1	Label	OUT-2
	Description	Not in use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P57.1	Label	OUT-3
	Description	Not in use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections in the control panel.

P61.5	Label	HL-FF
	Description	Pit access notification (light + buzzer). ON when pit access is detected.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check inputs S3-PIT, S2-EXC and S1-IN. B. Check the UNLOCK input on the UDEC.D board of the lowest floor. C. Check the status of 24VA.

17. Input/output diagnostics floor board UDEC.D



Before checking the LEDs, check that the board is correctly connected and powered.

17.01. Inputs

P2.5	Label	PREL.
	Description	Safety chain - PRELIMINARY floor door contact. ON with door closed.
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of input S4-CAB (UDEC.M). B. Check the SQ-APP-Px safety contact. C. Check the connections between the board and the contact. D. Check that the board is connected and powered.

P2.8	Label	LOCK
	Description	Safety chain - Landing door LOCK contact. ON with locked door.
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of input S6. (UDEC.M). B. Check the SQ-BLO-Px safety contact. C. Check the connections between the board and the contact. D. Check that the board is connected and powered.

P2.4	Label	UNLOCK
	Description	Landing door UNLOCK contact. ON with door locked.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the SQ-PR-Px contact. B. Check the connections between the board and the contact. C. Check that the board is connected and powered.

P7.1	Label	(no label)
	Description	Power supply for electric lock circuit (from sliding compartment contact)
	STANDBY status	OFF (no LED)
	if state NOT CORRECT	A. Check the connections between the board and the SQ-Pn contact.

P8.1	Label	IN1
	Description	Call button input. ON with button pressed.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check whether the button is pressed / locked. B. Check the connections between the board and the button. C. Check that the board is connected and powered.

P9.1	Label	IN2
	Description	Key switch input. ON with button disabled. For key switch: ON = button disabled, OFF = button enabled.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check whether the button/key switch is activated/locked. B. Check the connections between the board and the device.

P10.1	Label	IN3
	Description	Not in use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections on the board.

17.02. Outputs

P2.4	Label	ELT-LCK
	Description	Control for ELECTROSERRATION of the landing door. ON with cabin on the floor and when the control panel unlocks the door.
	STANDBY status	OFF
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel. C. Check the connections on the board.

P6.1	Label	OPEN
	Description	Landing door operator control - OPEN.
	STANDBY status	OFF
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel. C. Check the connections on the board.

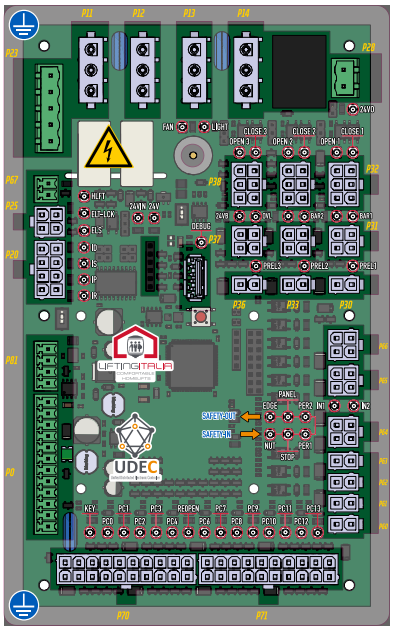
P6.2	Label	CLOSE
	Description	Landing door operator control - CLOSED.
	STANDBY status	◉ OFF
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel. C. Check the connections on the board.

P8.2	Label	OUT1
	Description	Call button light - Busy signal. ON while running or out of service.
	STANDBY status	◉ OFF
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel. C. Check the connections between the board and the button.

P9.2	Label	OUT2
	Description	Cab signalling on the floor. ON with cab on the floor.
	STANDBY status	◉ OFF
	if state NOT CORRECT	A. Look for short circuits outside the control panel. B. Look for short circuits within the control panel. C. Check the connections between the board and the button.

P10.2	Label	OUT3
	Description	Not in use
	STANDBY status	◉ OFF
	if state NOT CORRECT	A. Check the connections on the board.

18. Input/output diagnostics UDEC.C Cabin/board platform



Before checking the LEDs, check that the board is correctly connected and powered.

18.01. Inputs

P0.5	Label	24VIN
	Description	Input voltage supply 24 V DC
	STANDBY status	ON
	if state NOT CORRECT	A. Check the 24VC output on the UDEC.M. main board. B. Check the board wiring.

P70.3	Label	KEY
	Description	Key switch for hand control inhibition. ON with hand control disabled.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check whether the key switch is activated/locked. B. Check the connections between the board and the key switch. C. Check the status of the 24V output.

P70.4...8	Label	PC0...PC04
	Description	Call button input. ON with button pressed.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check whether the button is pressed / locked. B. Check the connections between the board and the key switch. C. Check the status of the 24V output.

P70.9	Label	REOPEN
	Description	Door opener button input. ON with button pressed.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check whether the button is pressed / locked. B. Check the connections between the board and the key switch. C. Check the status of the 24V output.

P71.3...10	Label	PC6...PC13
	Description	Call button input. ON with button pressed.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check whether the button is pressed / locked. B. Check the connections between the board and the key switch. C. Check the status of the 24V output.

P60.2	Label	ROPES
	Description	Cabin safeties - slack rope contact
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the S3-PIT input on the UDEC.M. main board. B. Check the SQ-PAR safety switch. C. Check the connections between the board and the switch.

P61.2	Label	STOP-C
	Description	Cabin safeties - Emergency stop push-button panel
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the ROPES input. B. Check the SB-PEC emergency stop button. C. Check the connections between the board and the button.

P62.2	Label	STOP-R
	Description	Cabin safeties.
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the STOP-C input. B. Check the SB-PET emergency stop button. C. Check the connections between the board and the button.

P63.2	Label	COP
	Description	Cabin safeties - Inspection panel
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the STOP-R input. B. Check the contact of the SQ-COP inspection panel. C. Check the connections between the board and the contact.

P64.2	Label	ROOF
	Description	Cabin safeties - Cabin roof
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the COP input. B. Check the SQ-TC car roof safety contact. C. Check the connections between the board and the contact.

P65.2 **P66.2**	Label	HEAD
	Description	Cabin safeties - False-heading devices
	STANDBY status	ON
	if state NOT CORRECT	A. Check the status of the ROOF input. B. Check the switches of the SQ-FT1 / 2 dummy headers. C. Check the connections between the board and the switches.

P64.4	Label	SQ-TCA
	Description	Cab roof auxiliary contact
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections between the board and the SQ-FTA contact.

P65.4 **P66.4**	Label	SQ-FTA
	Description	False header auxiliary contacts
	STANDBY status	OFF - ON if false header device present
	if state NOT CORRECT	A. Check the connections between the board and the SQ-FTA contacts.

P30.2	Label	PREL.1
	Description	Closed car door contact - ACCESS 1
	STANDBY status	ON
	if state NOT CORRECT	A. Check that the cabin door is closed. B. Check the SQ-APC1 car door pre-contact. C. Check the connection between the board and the contact

P33.2	Label	PREL.2
	Description	Closed car door contact - ACCESS 1
	STANDBY status	ON
	if state NOT CORRECT	A. Check that the cabin door is closed. B. Check the SQ-APC1 car door pre-contact. C. Check the connection between the board and the contact

P36.2	Label	PREL.3
	Description	Closed car door contact - ACCESS 1
	STANDBY status	ON
	if state NOT CORRECT	A. Check that the cabin door is closed. B. Check the SQ-APC1 car door pre-contact. C. Check the connection between the board and the contact

P36.2	Label	PREL3
	Description	Not in use
	STANDBY status	ON (jumpered)
	if state NOT CORRECT	A. Check the connections on the board.

P31.4	Label	BAR-1
	Description	Switch input.
	STANDBY status	ON if barrier provided, OFF otherwise
	if state NOT CORRECT	A. Check that the barrier/photocell is not obscured and that the installation is correct. B. ontrol the connection between the board and the interface unit of the barrier/photocell. **NOTE**: if the access does not include barriers/photocells the input may remain unconnected (LED off)

P34.4	Label	BAR-2
	Description	Switch input.
	STANDBY status	ON if barrier provided, OFF otherwise
	if state NOT CORRECT	A. Check that the barrier/photocell is not obscured and that the installation is correct. B. ontrol the connection between the board and the interface unit of the barrier/photocell. **NOTE**: if the access does not include barriers/photocells the input may remain unconnected (LED off)

P37.4	Label	BAR-3
	Description	Switch input.
	STANDBY status	ON if barrier provided, OFF otherwise
	if state NOT CORRECT	A. Check that the barrier/photocell is not obscured and that the installation is correct. B. ontrol the connection between the board and the interface unit of the barrier/photocell. **NOTE**: if the access does not include barriers/photocells the input may remain unconnected (LED off)

P37.4	Label	OVL
	Description	Overload switch input.
	STANDBY status	ON
	if state NOT CORRECT	A. Check the platform load. B. Check the status of 24VB. C. Check the connections between the control panel and the SQ-OVL switch (Domo Flex) or the SP-CAB weighing unit (Icon Lift). D. Check the correct functioning of the weighing unit (specific manual).

P20.8	Label	IR
	Description	Position reed input - IR (zero)
	STANDBY status	ON
	if state NOT CORRECT	A. Check the alignment between the sensor and the magnet. B. Check the connections between the board and the sensor. C. Check the status of the 24V output.

P20.7	Label	IP
	Description	Position reed input - IP (door area)
	STANDBY status	ON
	if state NOT CORRECT	A. Check the alignment between the sensor and the magnet. B. Check the connections between the board and the sensor. C. Check the status of the 24V output.

P20.7	Label	IP
	Description	Not in use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections on the board.

P20.6	Label	IS
	Description	Position reed input - IS (upward direction)
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the alignment between the sensor and the magnet. B. Check the connections between the board and the sensor. C. Check the status of the 24V output.

P20.5	Label	ID
	Description	Position reed input - ID (downward direction)
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the alignment between the sensor and the magnet. B. Check the connections between the board and the sensor. C. Check the status of the 24V output.

18.02. Outputs

P70.11 **P71.11** **P81.1**	Label	24V
	Description	Auxiliary output 24V DC
	STANDBY status	ON
	if state NOT CORRECT	A. Look for short circuits on the cable/devices connected to the board. B. Check the status of the 24VIN output.

P25.1	Label	ELT-LCK
	Description	Enabling ELECTROSERRATION of landing doors. ON while unlocking the landing door.
	STANDBY status	OFF
	if state NOT CORRECT	A. Look for short circuits on the cable connected to P25. B. Check the status of the 24VIN input. C. Check the communication status on the UDEC.M. main board.

P25.4	Label	ELS
	Description	In use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections on the board.

P67.1	Label	HL-FT
	Description	Signalling access in the header
	STANDBY status	OFF, ON in case of header access
	if state NOT CORRECT	A. Check the connections between the board and the HL-FT / BZ-FT signalling.

P67.1	Label	HL-FT
	Description	In use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections on the board.

P12	Label	LIGHT
	Description	Power supply for car lights (230V AC). ON during movement or in error state.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the status of the UDEC.M inputs from the safety chain. B. Check the status of 24V. C. Check the status of QF-4 in the main control panel.

P14	Label	FAN
	Description	Power supply for the car fan (230 V AC). Switched on while the machine is running.
	STANDBY status	ON OFF
	if state NOT CORRECT	—

P32.6 **P35.6** **P38.6**	Label	24VO
	Description	Emergency power supply for operator cards (24VDC).
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the wiring between the board and the operator board. B. Check the configuration of jumpers JP8..10.

P32.6 **P35.6** **P38.6**	Label	24VO
	Description	Power supply for car lights (24V DC). ON during movement or in an error state or during a power failure.
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the status of the UDEC.M inputs from the safety chain. B. Check the status of 24V.

P31.2 **P34.2** **P37.2**	Label	OPEN1..3
	Description	Automatic access door opening control 1..3
	STANDBY status	OFF
	if state NOT CORRECT	—

P31.2 **P34.2** **P37.2**	Label	OPEN1..3
	Description	Not in use
	STANDBY status	OFF
	if state NOT CORRECT	A. Check the connections on the board.

P32.2 **P35.2** **P38.2**	Label	CLOSE1..3
	Description	Automatic door locking control access 1..3
	STANDBY status	◉ OFF
	if state NOT CORRECT	A. Check the wiring between the board and the operator board. B. Check the configuration of jumpers JP8..10

P32.2 **P35.2** **P38.2**	Label	CLOSE1..3
	Description	Not in use
	STANDBY status	◉ OFF
	if state NOT CORRECT	A. Check the connections on the board.

19. Error Codes and Troubleshooting

The error codes are divided into families. In order of error severity:

ERROR CODES	
ERR_0xxx	Related to UDEC.M. firmware.
ERR_Axxx	Related to UDEC.M. board hardware.
ERR_Bxxx	Relating to the main control panel / main components / electrical safety.
ERR_Cxxx	Related to the cabin/platform.
ERR_Dxxx	Related to UDEC.D. door cards.

ON-SCREEN TEXT LEGEND	
X	= Specific type of error.
n	= Card number UDEC.D.
...	= Label assigned to the service (e.g. -1C, 3, B, etc.).

RESET / SOFT RESET / LOG COLUMNS	
Reset	YES means that a reset from the control panel is necessary to restore normal operation (see §10)
Soft reset	YES means that it is possible to reset the error from the button panel on the platform (see §10)
Log	YES means that the occurrence of the error is stored in the error log (see §10)

On the following pages, error diagnostics always refer to the IOs of the main board UDEC.M when the name of the board is not stated.

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_0000 FW X	Firmware error. X = 0...4: hardware error. X = 6...10: initialisation error. X = 11...14: Application error. X = 15...16: peripheral error. X = 17...18: log error. X = 19...20: parameter error.	If the error occurs frequently, take note of the error history and report it to LiftingItalia. The board restarts automatically.	—	—	NO	NO	SI
ERR_A000 24V	Undervoltage error at the input of UDEC.M.	See the IO diagnostics of the 24VIN input.	—	—	SI	SI	SI
ERR_A001 24V-AUX	Short circuit/heavy overload detected on 24V auxiliary.	See IO diagnostics of 24VA output.	—	—	SI	SI	SI
ERR_A002 24V-MOV	Short circuit/strong overload detected on 24V movement.	See IO diagnostics of output 24VM.	—	—	SI	SI	SI

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_A003 24V-VAN	Short circuit/heavy overload detected on 24V compartment.	See IO diagnostics of 24VV output.	—	—	SI	SI	SI
ERR_A004 24V-CAB	Short circuit/heavy overload detected on 24V cabin.	See IO diagnostics of 24VC output.	—	—	SI	SI	SI
ERR_A010 CAN FW X	CAN firmware error. X = 0: RX buffer overload. X = 1: TX buffer overload.	If the error occurs frequently, take note of the error history and report it to LiftingItalia. The card automatically resets itself.	—	—	NO	NO	SI
ERR_A020 CAN HL X	CAN hardware error. X = specific error.	If the error occurs frequently, take note of the error history and report it to LiftingItalia. The card automatically resets itself.	—	—	NO	NO	SI
ERR_A030 RelXClos	Internal relay glued in closed position. **X=1**: Return signal OTR-1/2 (UDEC.M). X=2: Return signal DWN and BRK (UDEC.M). X=3: Return signal FBE (UDEC.P)."	If there are errors related to 24V, solve them and do a reset.	Check for errors in the wiring of P22, P23, P24, P25, P42. Disconnect P22, P23, P24, P25 and check if the error recurs.	"Replace card. X=1 or X=2 -> UDEC.M X=3 -> UDEC.P"	SI	NO	SI
ERR_A031 RelXOpen	Internal relay glued in open position. X=1: Return signal OTR-1/2 (UDEC.M). X=2: Return signal DWN and BRK (UDEC.M). X=3: Return signal FBE (UDEC.P)."	If there are errors related to 24V, solve them and do a reset.	"Replace card. X=1 or X=2 -> UDEC.M X=3 -> UDEC.P"	—	SI	NO	SI
ERR_B032 BrkInOFF	Brake input (from inverter) always off.	See input diagnostics P31.2 BRK on UDEC.M.	—	—	SI	NO	SI
ERR_B033 BrkInpON	Brake input (from inverter) always off.	See input diagnostics P31.2 BRK on UDEC.M.	—	—	SI	NO	SI
ERR_A040 RedBotto	Redundancy checks on the sensitive fund inputs failed.	See IO diagnostics for BOTTOM and IN-4 LEDs. The two inputs must switch in synchrony.	Test the individual inputs with a piece of wire connected to 24V.	Replace the board.	SI	NO	SI
ERR_B010 ContClos	Safety contactor KG-SEC1 / 2 glued in closed position.	See IO diagnostics of FBK-C input.	Replace both contactors.	—	SI	NO	SI
ERR_B011 ContOpen	Safety contactor KG-SEC1 / 2 glued in open position.	See IO diagnostics of FBK-C input.	Replace both contactors.	—	SI	NO	SI

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_B021 PositioX	Anomaly detected on the position sensors (see §8). X=1: Counting error. X=2: Inconsistency direction of movement - sensor switching . X=3: Sensor switching from standstill. "	See diagnostics of IR, IS, ID inputs.	—	—	NO	NO	SI
ERR_B030 Inverter	Inverter failure	See IO diagnostics of the INV input.	Take note of the error code shown on the inverter display and contact LiftingItalia.	—	SI	SI	SI
ERR_B031 Thermist	Hydraulic unit thermal protection.	Check oil and engine temperature.	See input diagnostics P31.1 THM on UDEC.M.	Check parameters B014 and B015.	SI	SI	SI
ERR_B032 BrkInOFF	Brake input (from inverter) always off.	See input diagnostics P31.2 BRK on UDEC.M.	—	—	SI	NO	SI
ERR_B033 BrkInpON	Brake input (from inverter) always open.	See input diagnostics P31.2 BRK on UDEC.M.	—	—	SI	NO	SI
ERR_B040 SafChain	Anomaly detected on the inputs of the UDEC.M safety chain (e.g. hole in the safety chain).	See IO diagnostics from input S1-IN to S8-END.	Check the wiring for short circuits between the safety chain and other circuits.	Replace the board.	SI	NO	SI
ERR_B041 QF-SER	Thermal-magnetic circuit breaker QF-SER open.	See IO diagnostics of input S1-IN.	Check the safety chain for short circuits.	—	SI	NO	SI
ERR_B042 Overtrav	Open overtravel switch (SQ-EXC1 / 2).	See IO diagnostics of input S2-OVT.	—	—	SI	NO	SI
ERR_B043	Open pit safety contacts (pit emergency stop SB-PEF or pit safety contact SQ-FF).	See Input IO Diagnostics	—	—	SI	NO	SI
ERR_B044 SafCha 4	Interruption of movement for safety chain opening (S4-CAB - cabin safeties).	See IO diagnostics of S4-CAR input.	—	—	NO	NO	SI
ERR_B045 SafCha 5	Interruption of movement for safety chain opening (S5-APP - floor door preliminary).	See IO diagnostics of S5-APP input.	—	—	NO	NO	SI
ERR_B046 SafCha 6	Interruption of movement for safety chain opening (S6-CPC - Preliminary car door).	See IO diagnostics of S6-CPC input.	—	—	NO	NO	SI
ERR_B047 SafCha 7	Interruption of movement for safety chain opening (S7-BLK - landing door locks).	See IO diagnostics of S7-BLK input.	—	—	NO	NO	SI
ERR_B050 t-traveX	Stroke timeout (stroke time + 5s). X = D: downwards. X = A: upwards.	—	Check the speed of the cabin and that its movement is free of obstacles.	Check the connections between the control panel and the inverter or control unit.	SI	NO	SI

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_B060 Blackout	Blackout - absence of 230V AC power supply.	See IO diagnostics of the GRID-OK input.	—	—	NO	NO	NO
ERR_B061 Battery	Batteries not connected or discharged.	See BAT-KO input IO diagnostics	—	—	NO	NO	NO
ERR_B062 Rot3Phas'	Only for three-phase supply. Phase failure or incorrect phase sequence.	Check the presence of voltage on the three phases.	Reversing two phases.	Check connections and function of presence module and phase sequence KA-PH.	NO	NO	SI
ERR_B070 PitAcces	Access to the pit detected by the lower floor door release or the S3-PIT safety chain.	See IO diagnostics of HL-FF and S3-PIT output.	—	—	SI	NO	SI
ERR_B071 HeadAcce	Header access detected.	See input diagnostics P64.4 SQ-TCA on UDEC.C.	—	—	NO	NO	NO
ERR_B072 ShaftAcc	Access to the compartment detected.	—	—	—	SI	NO	SI
ERR_C005 R24V CAB	Exceeded the maximum number of automatic resets for door card faults UDEC.C - 24V.	Check for short circuits/overloading of devices connected to the car board.	Check the car board connections to the control panel.	—	SI	SI	SI
ERR_C010 CAN CAB.	Exceeded the maximum number of automatic resets for UDEC.C - CAN port card faults.	Take note of the error history and report to LiftingItalia if the error occurs frequently.	Check the car board connections to the control panel.	Check for short circuits/overloading of devices connected to the car board.	SI	SI	SI
ERR_C021 ScrewSen	Committed screw lift sensor (SQ-VIT).	See IO diagnostics of the SCREW input.	—	—	SI	NO	SI
ERR_C030 Overload	Overload detected by weighing unit or overload switch.	See IO diagnostics of the OVL input on UDEC.C.	—	—	NO	NO	NO
ERR_C042 Unlock X	Floor door not fully unlocked.	Check the functioning of the lock	See the IO diagnostics of the UNLOCK input of UDEC.D.	—	NO	NO	NO
"ERR_C050 SWX CAB'	Notification of door card status UDEC.C. X = 0: Board restart. X = 1: undervoltage. X = 2: Overcurrent at the electric lock output. X = 3: Short circuit on generic 24V output. X = 4...13: CAN error.	Take note of the error history and report to LiftingItalia if the error occurs frequently. The card automatically resets itself.	—	—	NO	NO	SI
ERR_Dn05 R24V "..."	Exceeded the maximum number of automatic resets for door card faults UDEC.D - 24V.	Check for short circuits/overloading of devices connected to the port board.	Check the connections of the port board to the compartment backbone cable.	—	SI	SI	SI

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_Dn10 CAND "..."	UDEC.D port card not active on CAN bus.	Check the connections of the port board to the compartment backbone cable. The card automatically resets itself.	Check for short circuits/overloading of devices connected to the port board.	—	NO	NO	SI
ERR_Dn11 RCAN "..."	Exceeded the maximum number of automatic resets for UDEC.D - CAN port card faults.	Take note of the error history and report to LiftingItalia if the error occurs frequently.	Check the connections of the port board to the compartment backbone cable.	Check for short circuits/overloading of devices connected to the port board.	SI	SI	SI
ERR_Dn20 SWX "..."	Notification of door card status UDEC.D. X = 0: Board restart. X = 1: undervoltage. X = 2: Overcurrent at the electric lock output. X = 3...12: CAN error.	Take note of the error history and report to LiftingItalia if the error occurs frequently. The card automatically resets itself.	—	—	NO	NO	SI

20. Menu and HMI parameters

LEVEL_1	LEVEL_2	LEVEL_3	DESCRIPTION
OperMode			
	Normal		Set to normal mode (§10).
	Mainten.		Setting the maintenance mode (§10).
	Commiss.		
		Overtrav	Overtravel start-up (§10).
		BeltSafe	Putting the belt safety into operation (§10).
Parametr			
	General		General parameters.
	Machine		Machine parameters.
	Landings		Floor Door Parameters.
	Cabin		Cab parameters.
	CarDoors		Cabin door parameters.
Diagnost			
	ErrorLog		General parameters.
		Read	The display shows three screens: date/time of error, error code and system dump. Use the arrows to scroll through the log (max. 10 records).
		Clear	Clear error log
	UDEC.M		
		FW Vers.	Show firmware version
		CAN stat	Shows CAN-bus statistics.
	UDEC.C		
	UDEC.D		
Date&Time			Date and time change.
Login			User change

Changes to these parameters require a restart of the board (power-off - power-on) to take effect.

20.01. Menu - Section 'Parameter' Details

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
General	A000	MachineType	0	4	0
	A001	Year	2015	2030	2022
	A002	OdV	1	2000	1000
	A003	CustomerID	0	65535	0
	A004	Language	0	1	0
	A005	FormatDate	0	1	0
	A006	User	0	2	0
	A007	N_UDEC_D	2	16	2
	A008	Diagnostic Level	0	3	0
Machine	B000	Travel	500	20000	1800
	B001	Pit	0	5000	150
	B002	Head	0	5000	2500
	B003	Nservices	2	16	2
	B004	Nstops	2	16	2
	B005	Speed	1	300	150
	B006	Floor operation	0	1	1
	B007	Cabin operation	0	1	0
	B008	OperationRemote controls	0	1	0
	B009	Parking stop	0	16	0
	B00A	Parking Time	1	255	15
	B00B	Fire Operation Service	0	16	0
	B00C	A3 operation	0	1	0
	B00D	PitAccess Control	0	1	1
	B00E	Header Access Control	0	1	0
	B00F	Compartiment Access Control	0	1	0
	B010	DescentBlackoutInHighSpeed	0	1	0
	B011	DescentBlackoutP0	0	1	0
	B012	Dorsal Compartiment	0	2	0
	B013	MagnetsSlowdown	0	65535	65535
	B014	ThresholdThermistorsH	0	65535	31100
	B015	ThresholdThermistorsL	0	65535	28500
	B016	ContactTypeOverload	0	1	1
	B017	LowSpeed Timeout	0	255	10
	B018	Three-phase power supply	0	1	0
	B019	FireOperation DoorClose	0	1	0

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
Landings[0]	D000	Label	0	65535	8240
	D001	Interfloor	0	65535	3000
	D002	Level	0	15	0
	D003	Side	0	3	0
	D004	Multiple Service	0	1	0
	D005	DoorType	0	3	0
	D006	TypeUnlock	0	5	0
	D007	ContactTypePresent	0	1	0
	D008	OperatorType	0	6	0
	D009	OpeningCommand Duration	0	255	15
	D00A	ClosureCommand Duration	0	255	15
	D00B	idxDorsal	0	15	0
	D00C	ParkingDoorsOpen	0	1	0
	D00D	Buzzer	0	1	1
	D00E	IN2 function	0	6	0
	D00F	IN3 function	0	6	0
Landings[1]	D100	Label	0	65535	8241
	D101	Interfloor	0	65535	3000
	D102	Level	0	15	1
	D103	Side	0	3	0
	D104	Multiple Service	0	1	0
	D105	DoorType	0	3	0
	D106	TypeUnlock	0	5	0
	D107	ContactTypePresent	0	1	0
	D108	OperatorType	0	6	0
	D109	OpeningCommand Duration	0	255	15
	D10A	ClosureCommand Duration	0	255	15
	D10B	idxDorsal	0	15	1
	D10C	ParkingDoorsOpen	0	1	0
	D10D	Buzzer	0	1	1
	D10E	IN2 function	0	6	0
	D10F	IN3 function	0	6	0
Landings[2]	–	Label	0	65535	8242
	–	Interfloor	0	65535	3000
	–	Level	0	15	2
	–	Side	0	3	0
	–	Multiple Service	0	1	0

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	2
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[3]	–	Label	0	65535	8243
	–	Interfloor	0	65535	3000
	–	Level	0	15	3
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	3
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[4]	–	Label	0	65535	8244
	–	Interfloor	0	65535	3000
	–	Level	0	15	4
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
	–	idxDorsal	0	15	4
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[5]	–	Label	0	65535	8245
	–	Interfloor	0	65535	3000
	–	Level	0	15	5
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	5
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[6]	–	Label	0	65535	8246
	–	Interfloor	0	65535	3000
	–	Level	0	15	6
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	6
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
Landings[7]	–	Label	0	65535	8247
	–	Interfloor	0	65535	3000
	–	Level	0	15	7
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	7
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[8]	–	Label	0	65535	8248
	–	Interfloor	0	65535	3000
	–	Level	0	15	8
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	8
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[9]	–	Label	0	65535	8249
	–	Interfloor	0	65535	3000
	–	Level	0	15	9
	–	Side	0	3	0
	–	Multiple Service	0	1	0

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	9
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[10]	–	Label	0	65535	8250
	–	Interfloor	0	65535	3000
	–	Level	0	15	10
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	10
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[11]	–	Label	0	65535	8251
	–	Interfloor	0	65535	3000
	–	Level	0	15	11
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
	–	idxDorsal	0	15	11
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[12]	–	Label	0	65535	8252
	–	Interfloor	0	65535	3000
	–	Level	0	15	12
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	12
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[13]	–	Label	0	65535	8253
	–	Interfloor	0	65535	3000
	–	Level	0	15	13
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	13
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
Landings[14]	–	Label	0	65535	8254
	–	Interfloor	0	65535	3000
	–	Level	0	15	14
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	14
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	IN3 function	0	6	0
Landings[15]	–	Label	0	65535	8255
	–	Interfloor	0	65535	3000
	–	Level	0	15	15
	–	Side	0	3	0
	–	Multiple Service	0	1	0
	–	DoorType	0	3	0
	–	TypeUnlock	0	5	0
	–	ContactTypePresent	0	1	0
	–	OperatorType	0	6	0
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	idxDorsal	0	15	15
	–	ParkingDoorsOpen	0	1	0
	–	Buzzer	0	1	1
	–	IN2 function	0	6	0
	–	Label	0	6	0
Operators[0]	–	Door opening speed	3	8	3
	–	Door closing speed	3	8	3
	–	Opening approach deceleration distance	0	1000	100
	–	Closing approach deceleration distance	0	1000	100
Operators[1]	–	Door opening speed	3	8	3

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
	–	Door closing speed	3	8	3
	–	Opening approach deceleration distance	0	1000	100
	–	Closing approach deceleration distance	0	1000	100
Operators[2]	–	Door opening speed	3	8	3
	–	Door closing speed	3	8	3
	–	Opening approach deceleration distance	0	1000	100
	–	Closing approach deceleration distance	0	1000	100
Operators[3]	–	Door opening speed	3	8	3
	–	Door closing speed	3	8	3
	–	Opening approach deceleration distance	0	1000	100
	–	Closing approach deceleration distance	0	1000	100
Operators[4]	–	Door opening speed	3	8	3
	–	Door closing speed	3	8	3
	–	Opening approach deceleration distance	0	1000	100
	–	Closing approach deceleration distance	0	1000	100
Operators[5]	–	Door opening speed	3	8	3
	–	Door closing speed	3	8	3
	–	Opening approach deceleration distance	0	1000	100
	–	Closing approach deceleration distance	0	1000	100
Operators[6]	–	Door opening speed	3	8	3
	–	Door closing speed	3	8	3
	–	Opening approach deceleration distance	0	1000	100
	–	Closing approach deceleration distance	0	1000	100
Operators[7]	–	Door opening speed	3	8	3
	–	Door closing speed	3	8	3
	–	Opening approach deceleration distance	0	1000	100
	–	Closing approach deceleration distance	0	1000	100
Cabin	C000	Naccess	1	3	1
	C001	Enable SideB	0	1	0
	C002	Enable SideC	0	1	0
	C003	Enable SideD	0	1	0
	C004	Fan	0	3	0
	C005	Gong	0	1	0
	C006	Cabin Light Delay	0	255	10
	C007	P71Function	0	7	1

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
	C008	Buzzer	0	1	1
	C009	ServicesDisabledByKey	0	65535	65535
	C0A	CopDisplay	0	1	0
CarDoors[0]	CA00	DoorType	0	3	3
	CA01	OperatorType	0	4	4
	CA02	Protection Type	0	2	1
	CA03	OpeningCommand Duration	0	255	15
	CA04	ClosureCommand Duration	0	255	15
	CA05	ParkingDoorsOpen	0	1	0
CarDoors[1]	–	DoorType	0	3	3
	–	OperatorType	0	4	4
	–	Protection Type	0	2	1
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	ParkingDoorsOpen	0	1	0
CarDoors[2]	–	DoorType	0	3	3
	–	OperatorType	0	4	4
	–	Protection Type	0	2	1
	–	OpeningCommand Duration	0	255	15
	–	ClosureCommand Duration	0	255	15
	–	ParkingDoorsOpen	0	1	0

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