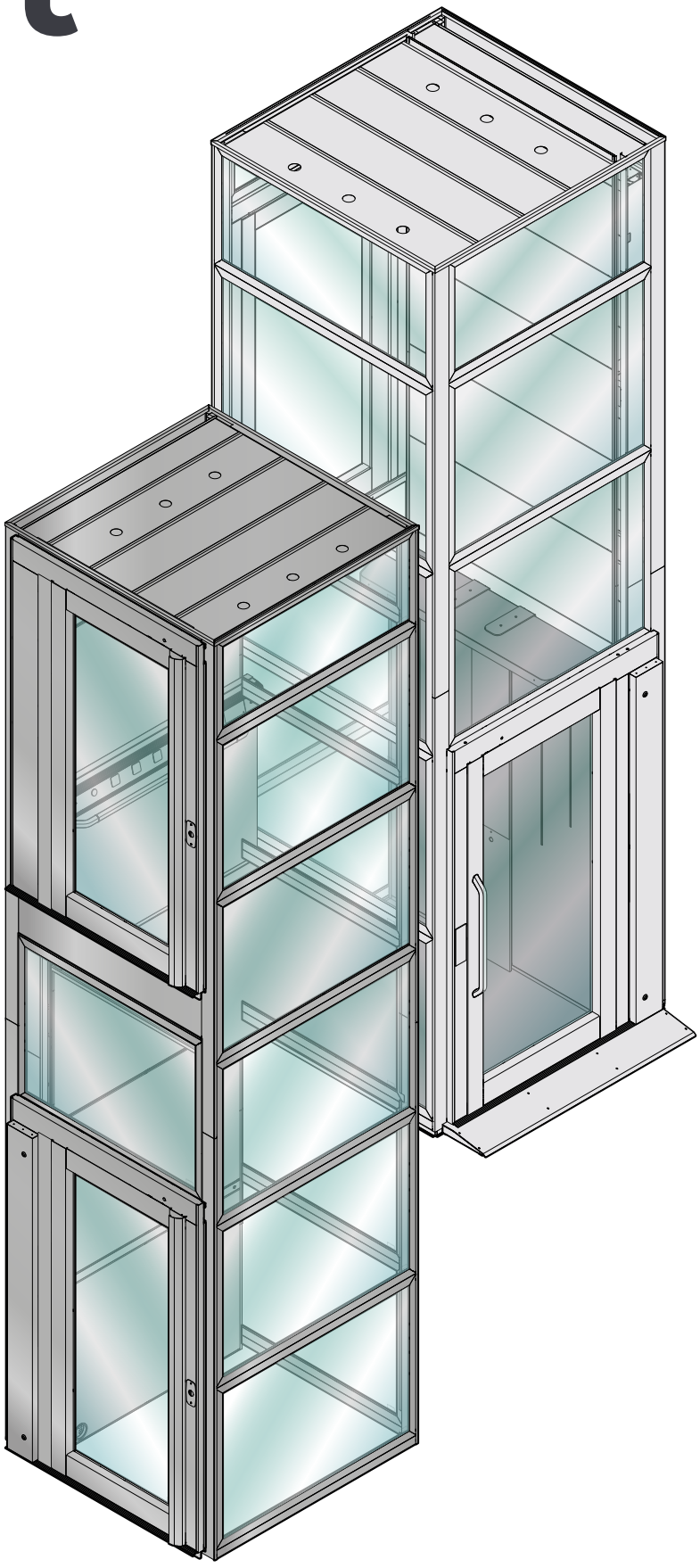
EN

DomoFlex® and IconLift®

Electric screw driven platform lift

ELECTRICAL EQUIPMENT (U.D.E.C.) INSTALLATION AND DIAGNOSTICS

(Rev.1.1)



sample image

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.

Technical specifications may be subject to change without notice due to product improvement development.
The drawings included in this manual are to be considered as indicative and are NOT an exact reference to the product concerned.

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.	RISIKONIVEAU
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 important information to be scrupulously observed.
	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

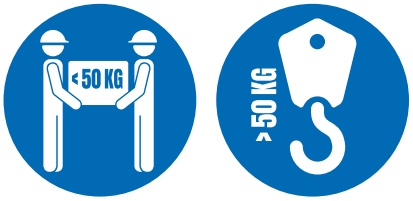
SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:

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

Overview DomoFlex 2

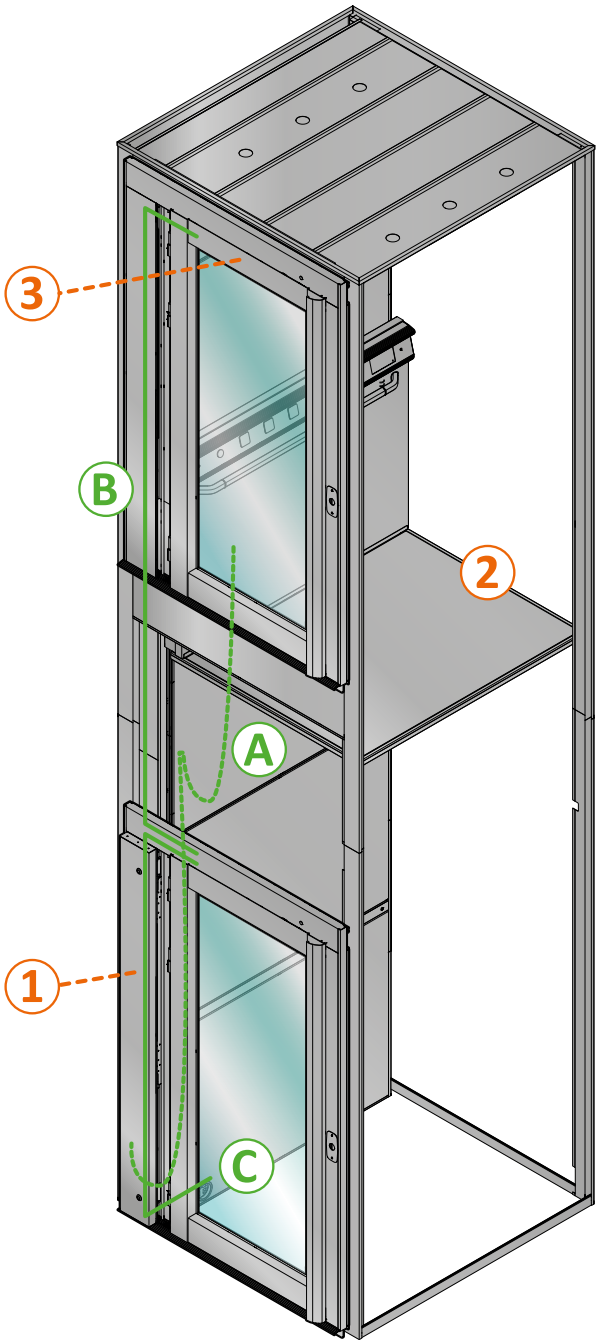
The electrical equipment of DomoFlex 2 consists of the following main components and connections:

1. Main control panel integrated in the frame of the lowest door.
2. Cabin electronic board and inverter box located on the platform.
3. Landing doors' electronic boards located in the door frame.

A. The platform is connected to the control panel by flexible cables, one reserved for the inverter and one for the cabin board.

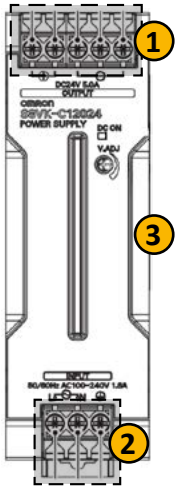
B. The door boards are connected together by a single cable.

C. The pit devices are connected directly to the main control panel.



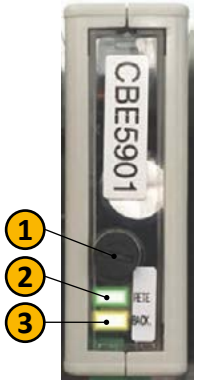
5. Main electronic devices

5.01. Auxiliary power supply (PS1)



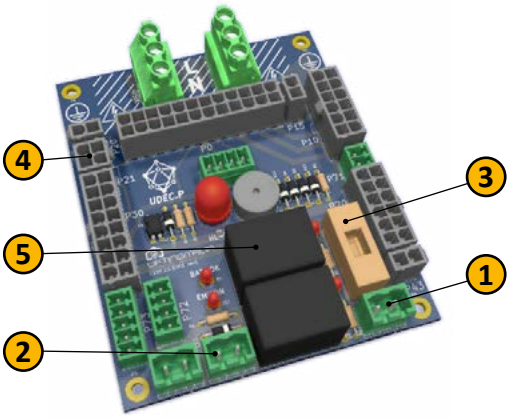
1. Input for 230V AC.
2. Output 24V DC for command and auxiliary devices.
3. Output voltage trimmer.

5.02. Battery charger (PS2)



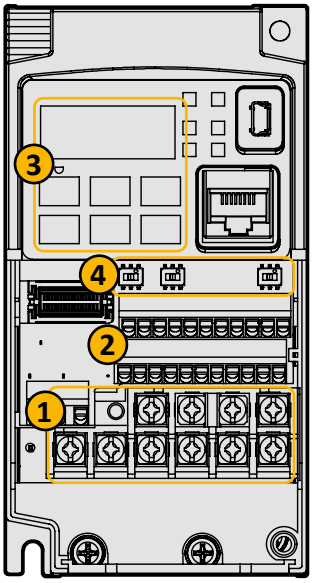
1. Fuse 6A for batteries.
2. Supply voltage present.
3. Emergency power supply activated.

5.03. Pit board UDEC.P



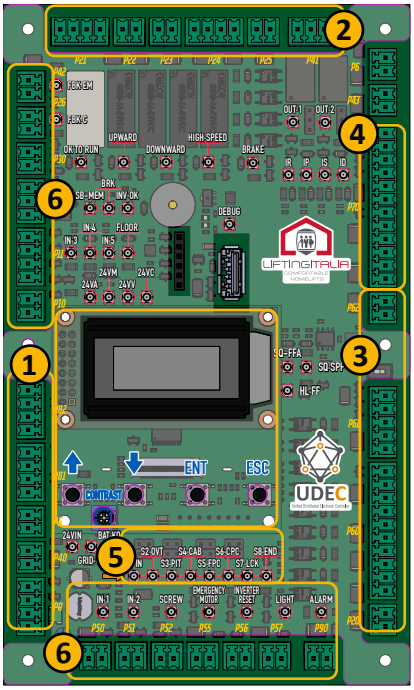
1. Batteries connection.
2. Emergency motor connection.
3. Batteries fuse.
4. Pit safeties connections.
5. Pit access LED and buzzer.

5.04. Inverter MX2



1. Power terminals.
2. Control terminals.
3. Display – buttons.
4. Configuration dipswitches.

5.05. Main board UDEC.M (see §16 for details)



1. Human-Machine-Interface (HMI).
2. Movement commands.
3. Connection to shaft.
4. Connectors to platform.
5. Safeties collector.
6. Auxiliary input/outputs.

5.06. Landing door board UDEC.D (see §17 for details)

P1 P3 Input / output connections to other landing door boards.

P2 Door lock contacts.

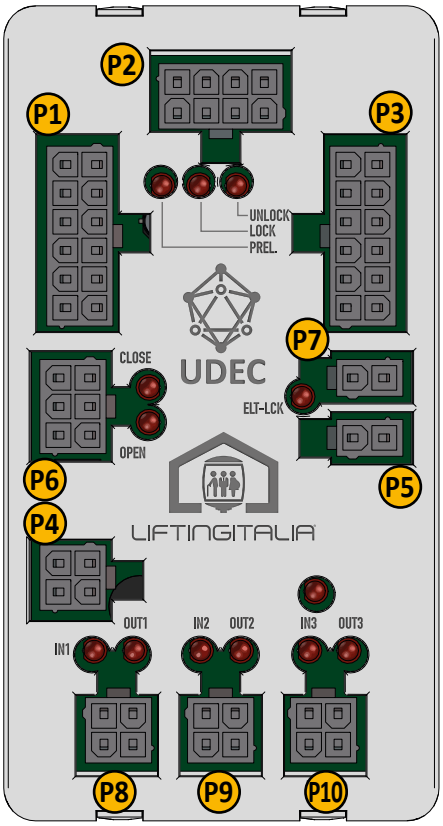
P4 Display.

P5 Electric lock output.

P6 Automatic door operator.

P7 Electric lock input.

P8 P9 P10 Pushbuttons / key-switches.



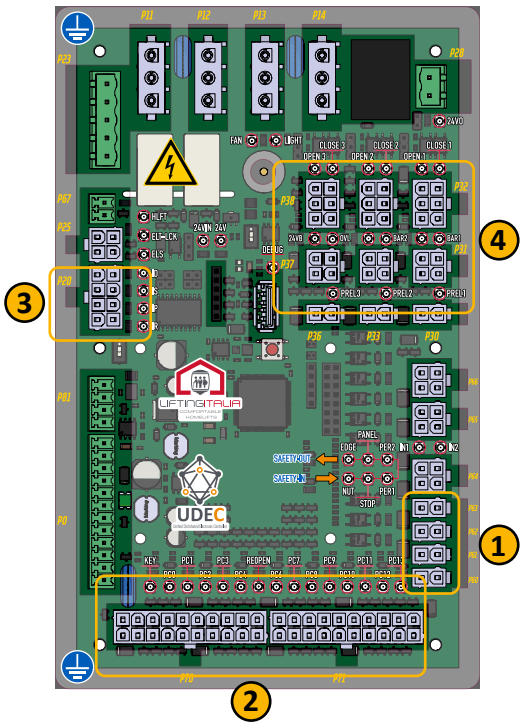
5.07. Platform / Cabin board UDEC.C (see §18 for details)

1 Car safeties.

2 COP pushbuttons.

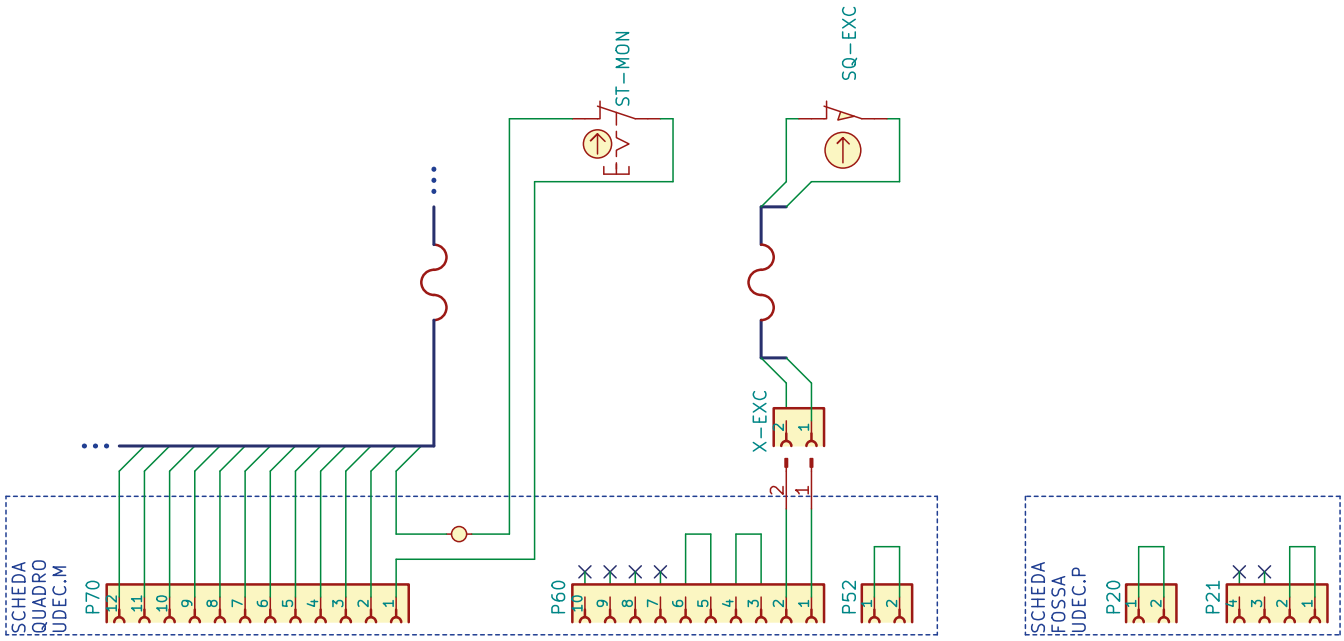
3 Position sensors.

4 Car doors.



6. First run connections

D. Make all connections between the platform and the switchboard as shown on the wiring diagram.
E. Temporarily bridge the contacts of the equipment not yet connected using the terminals provided and connect the maintenance control station following the directions below:



LEGENDA	
ST_MON	Emergency stop on the maintenance control station
MAN-DISC	Down button on the maintenance control station
MAN-SAL	Up button on the maintenance control station
SA-MAN	Maintenance selector switch (contact closed > maintenance on)

F. Make all ground connections.
G. Check that all safeties are closed and that the emergency stop on the car operating panel is working properly.
H. To activate operation in maintenance, turn the selector switch to the MAN position.
In maintenance, the system moves only through the SB_DN and SB_UP controls: holding down the former causes the car to move downward while the latter causes it to move upward.

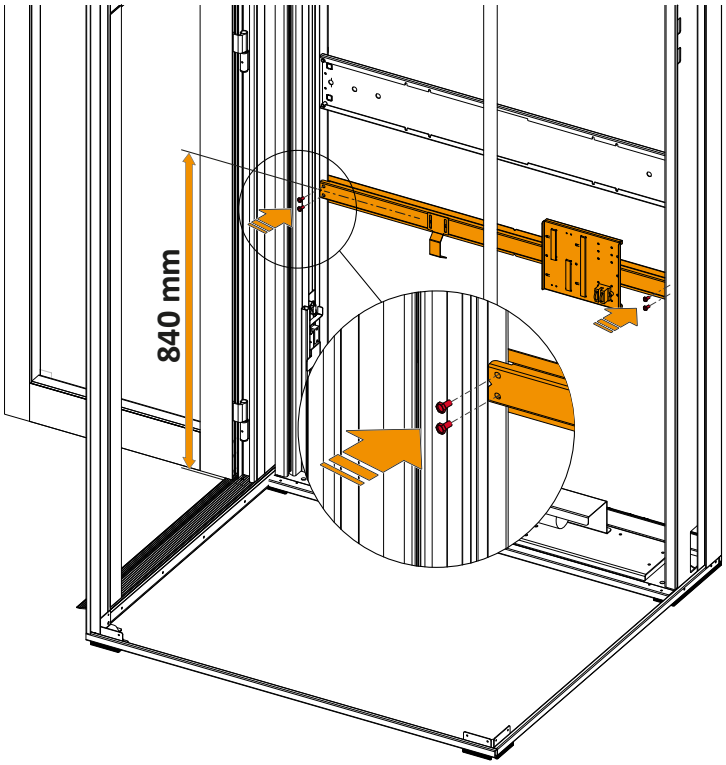
	To switch from maintenance to normal, reference must be made to § 11 OPERATING MODES
	During the assembly operation, there is no control of the position of the cabin. Only if all the magnets have been properly installed and the system is rephased, the movement in maintenance is limited to the stroke of the system, between the extreme floors..

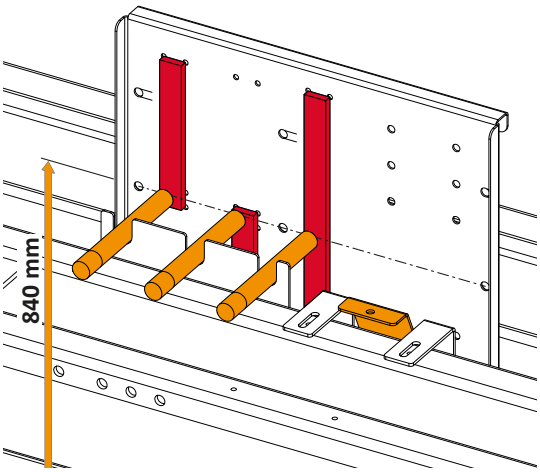
7. Magnets' layout

7.01. With Aluminium rails

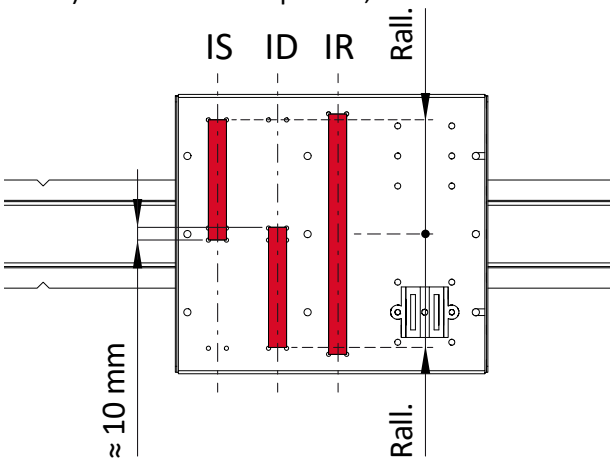
Adjust magnets position:

1. With the system under maintenance, bring the car to the exact floor level (floor and car levels aligned);
2. Check that the magnet holder plates are positioned at a height of 840mm respect to the landing level. The holder plate must be aligned with the magnetic sensors and the electrolock slide located rear the car operating panel;





3. Adjust magnets position (IS, ID e IR) as shown in the picture;



4. Repeat the procedure at the other landings.

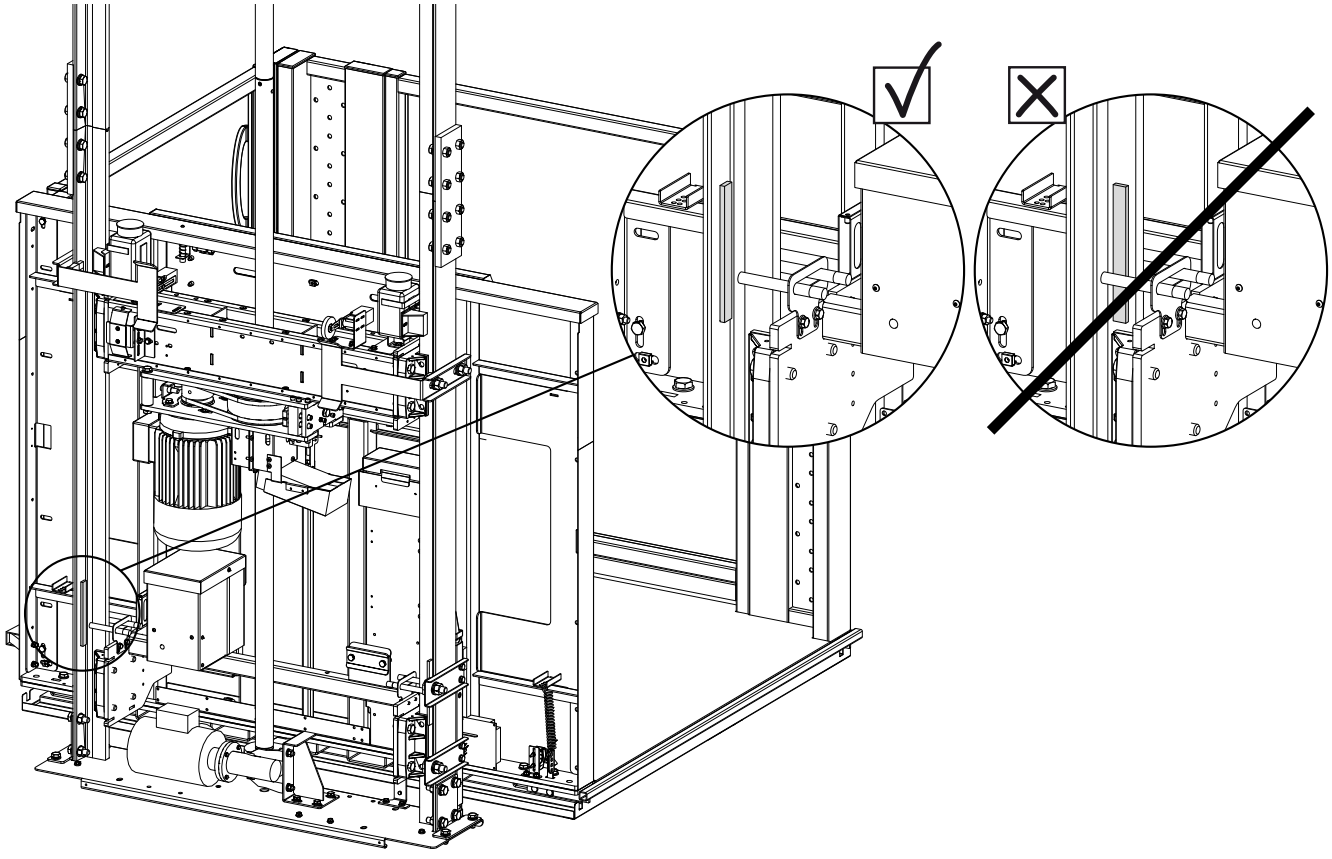
	IR magnet is present only at the lowest level.

7.02. With Iron rails

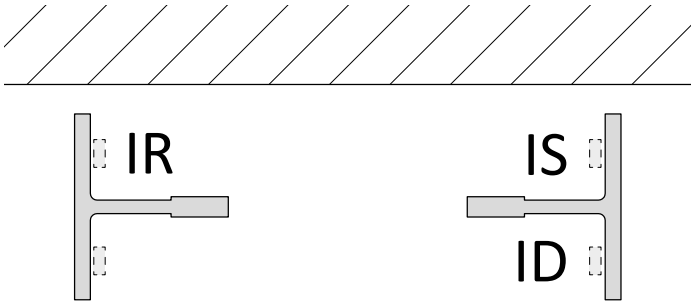
CAUTION	
⚠	TWO ASSEMBLERS ARE NEEDED: one in the machine room in front of the control panel and the other near the sensors.

Adjust magnets position following this procedure:
1. With the system under maintenance, bring the car to the exact floor level (floor and car levels aligned);
2. IS ascent sensor: gradually move from the top the 150 mm magnet towards the sensor, stopping just as the corresponding IS LED on the card turns on;
3. ID descent sensor: gradually move from the bottom the 150 mm magnet to the sensor, stopping just as the corresponding ID LED on the card turns on.

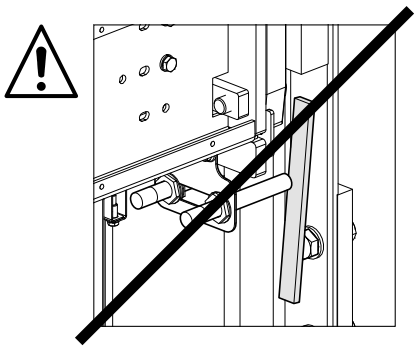
ℹ	Pictures may slightly differ from the machine.

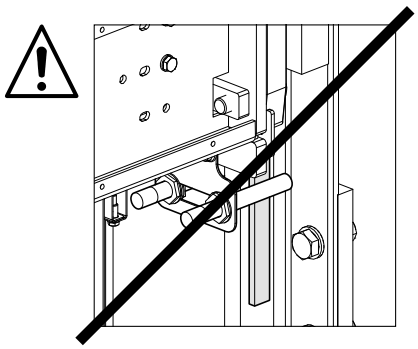


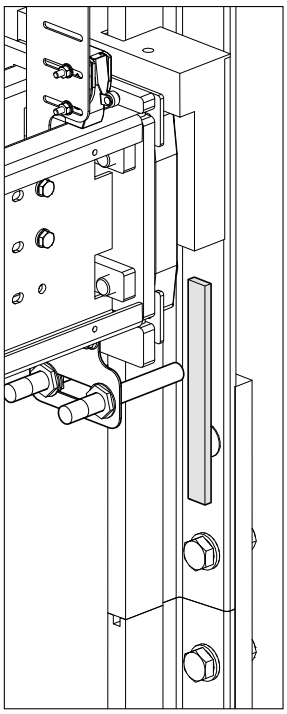
Hereunder, the recommended sensor location.

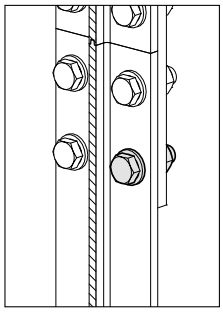


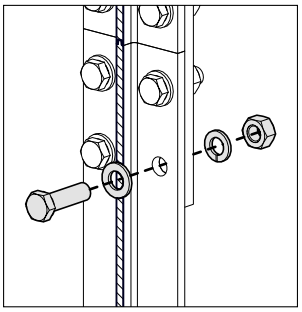
LEGEND	
IR	Re-phasing sensor
ID	Descent sensor (stop and slowdown)
IS	Ascent sensor (stop and slowdown)
PB	Lowest floor
PI	Intermediate floors
PA	Upper floor
ZB	Bypass zone
Rall.	Slowdown distance

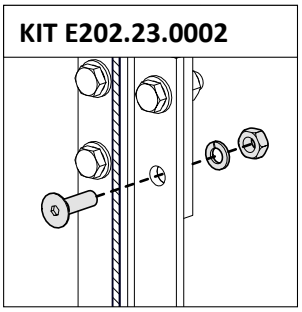


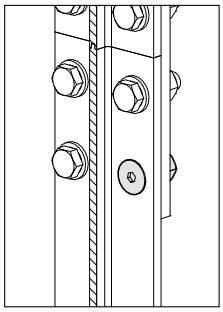


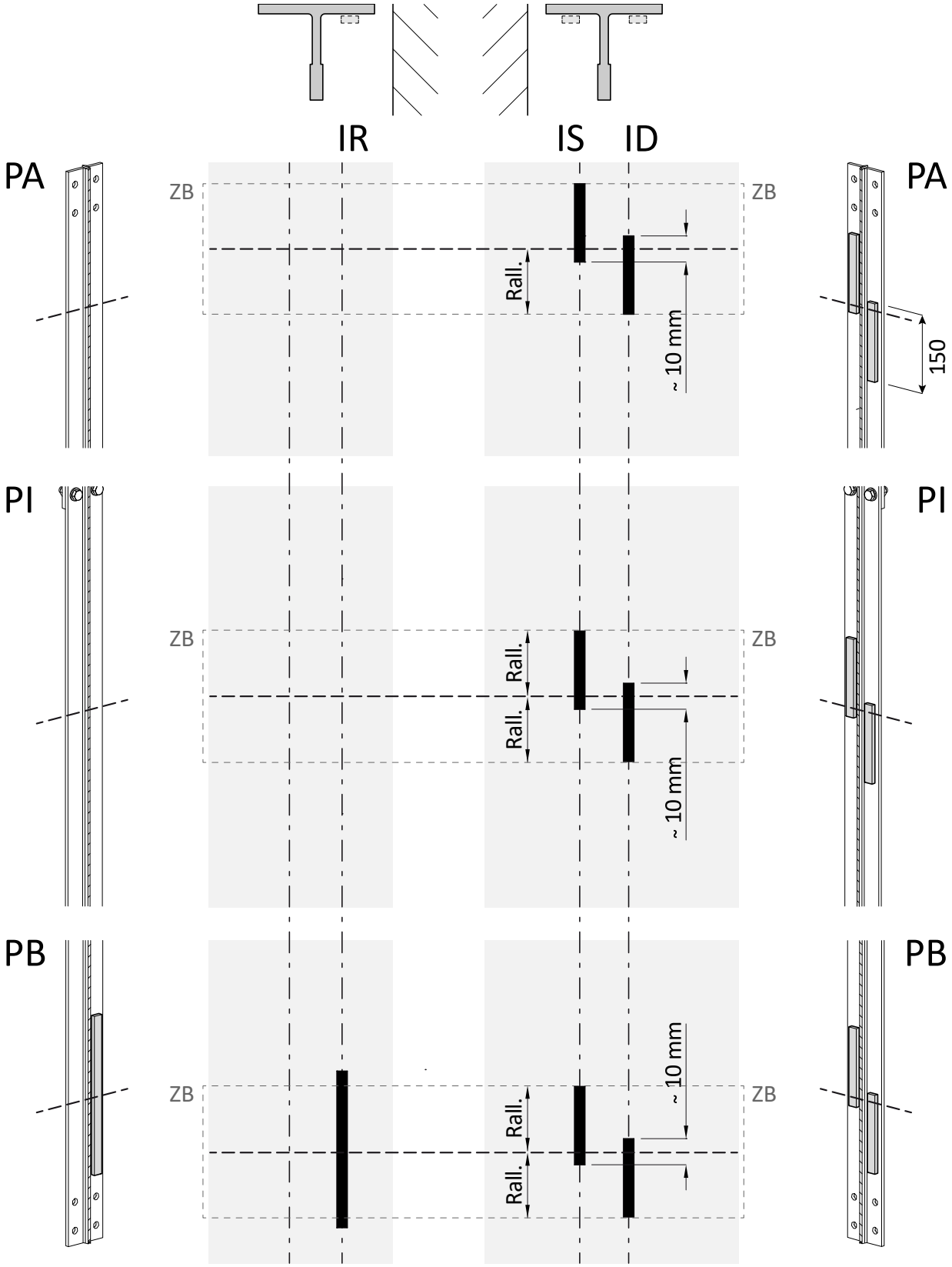












8. Acoustic signal

During the operation the platform may emit some acoustic signals to warn the user:

CONTINOUS	The platform / car safeties have been activated. Check the safety edges.
CONTINOUS BEEPS	Overload.
2 BEEPS	The user is trying to move the platform but one of the doors is not completely closed or locked.
3 BEEPS	The user is trying to move the platform but one of the emergency stops is engaged.

9. Reset & Soft reset

There are two kinds of reset commands:

RESET	Press both the 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 what errors must be reset by this command.
SOFT RESET	Press both call buttons on one of the COPs 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 what errors can be reset by this command.

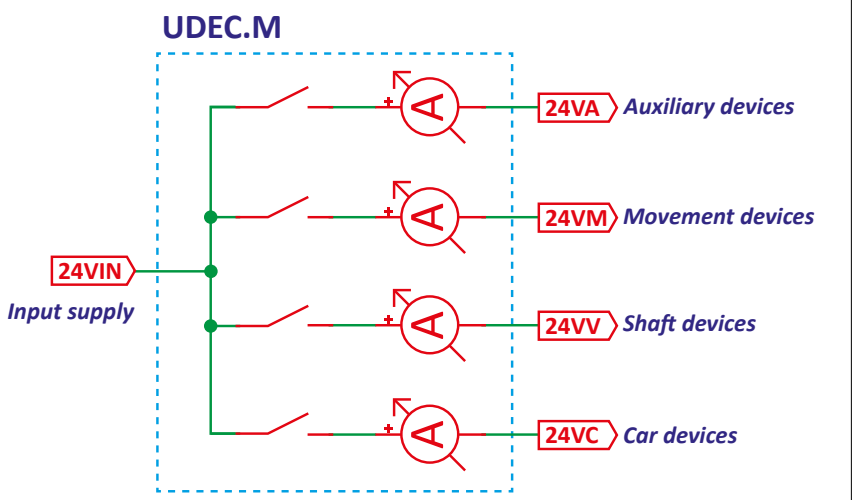
10. Operating modes

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

<table>
<tr><td>NORMAL</td><td>If the platform commands are enabled and no error is present, the local and remote commands can be used to move the platform.</td></tr>
<tr><td>BLACK-OUT
POWER FAILURE</td><td>During a blackout the behaviour of the platform depends on its position:
• at the floor: the platform will stay at the floor until the main supply is restored. All the commands will unlock the landing door.
• not at the floor: after few seconds all the commands received from the COP will move the platform downward in low speed to the nearest landing.</td></tr>
<tr><td>MAINTENANCE</td><td>Once in this mode, the landing and remote commands are disabled, and the platform can be operated only using the arrow buttons on the HMI or using the first two buttons on the COP (press ESC until the display shows “MAINTENANCE ACTIVE”).
If the platform has been re-phased 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 sensors and magnets IR and ID.
CAUTION
 
• This operating mode can cause physical damage to the user / technician or damage the machine.
• Be extremely careful when using these functions.</td></tr>
<tr><td>COMMISSIONING</td><td>As in maintenance mode, all local and remote commands are disabled.
• Overtravel commissioning: the platform can be operated using the HMI arrow buttons; it will move only in low speed ignoring the state of the limit switches. During the movement the platform will emit an acoustic signal to warn the technicians.
Use this mode to test the safety switch for overtravel or if there are problems related to the position sensors.</td></tr>
</table>

11. Power supply management

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



If any fault is detected the main board turns off one or more outputs, depending on the fault (see §19 ERR_A00x). At the sturt-up the main board turns on in sequence the four supply outputs to test for possible short circuits. The other electronic boards (door and cabin) have intrinsic mechanisms for the power supply management. In case of errors these boards are automatically reset by the main board for a limited number of times. Once the maximum number of automatic resets is exceeded the main board needs a reset (see §19 ERR_Dn05).

This is the quick procedure for troubleshooting in case of errors related to the power supply:

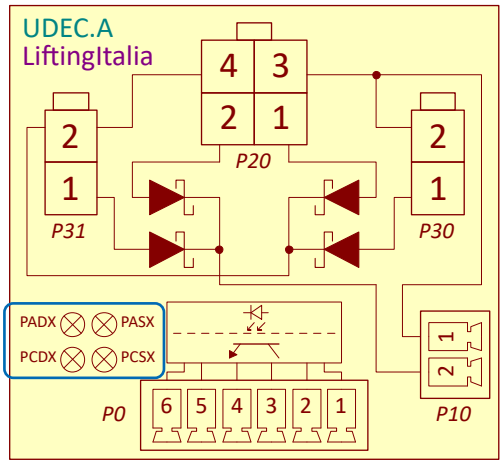
a. disconnect all the plugs from the board;
b. reset the board;
c. connect the plugs one at a time and wait for the error to occur;
d. when the error occurs check the devices and cables connected to that plug.

12. CAN communication management

The intelligent boards communicate on a CAN bus network exchanging messages related to the IOs state, commands, diagnostics etc.
The protocol has intrinsic mechanisms to automatically detect and recover from communication errors. In case of temporary disconnection of a remote board (UDEC.D or UDEC.C) from the bus the main board UDEC.M can inhibit some functionalities, but these are automatically restored when the remote board returns alive.
If the number of communication anomalies detected exceeds a defined threshold, the main board requests a reset (see §19 ERR_Dn11).

13. LEDs on UDEC.A board

The following image and table explain the meaning of the LEDs found on the door board UDEC.A:



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

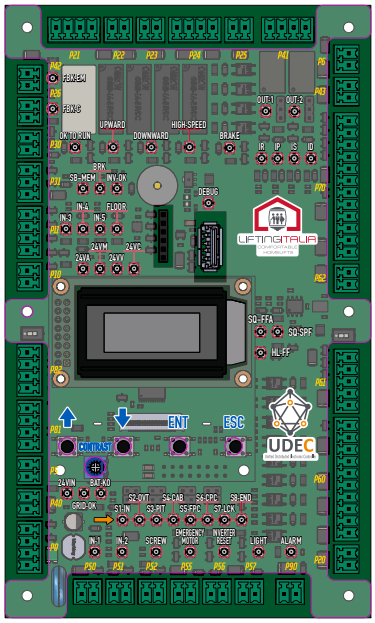
14. Insulation tests

A. Place the car between two floors and check if the safety chain is closed.
B. Disconnect the control panel from the mains supply by opening the power switchgears (QS, QF-3, QF-4).
C. Disconnect al the battery terminals.
D. To avoid a wrong result or the damaging of the equipment, disconnect the power supply from the devices that are connected to PE: inverter, LEDs supply units, etc.
E. Disconnect the "-" conductor from the PE terminal on Xr; the terminal is shown on the electrical drawings.
F. Make sure that all the low voltage switchgears inside the cabinet are closed (QF-24 and QF-SER).
G. Measure the resistance values between PE and the terminals indicated in the below table. The table shows the test voltage (V) and the minimum resistance of the insulation between the circuits (MΩ).

	10L and 10N	LC-L and LC-N	LV-L and LV-N	+24VO	+24VA +24VM +24VV +24VC
PE	500V > 1MΩ	500V > 1MΩ	500V > 1MΩ	250V > 0.5MΩ	250V > 0.5MΩ

H. Restore all the connections.

15. Mainboard UDEC.M input / output diagnostic



The standby status refers to platform at the bottom floor ready to serve a call.
In case of incorrect status, for all the inputs/outputs:

- Check the voltage directly on the connector pin;
- Check if the connector / wire is properly inserted in the plug;
- Try to make a temporary bridge or to remove the wire to check if the LED status changes.

15.01. Inputs

P0.4	Label	24VIN
	Description	24V DC input voltage supply
	Standby status	ON
	If status is not correct	A. Check the switchgears QS and QF-24. B. Check the power supply PS1. C. Check the platform power supply.

P0.2	Label	GRID-OK
	Description	Grid voltage 230V AC detected
	Standby status	ON
	If status is not correct	A. Check the switchgear QF-3. B. Check the platform power supply. C. Check the power supply PS1.

P0.1	Label	BAT-KO
	Description	Batteries discharged or disconnected
	Standby status	OFF
	If status is not correct	A. Check the status 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	Safety chain - INPUT
	Standby status	ON
	If status is not correct	A. Check the circuit breaker QF-SER.

P60.1	Label	S2-OVT
	Description	Safety chain - OVERTRAVEL
	Standby status	ON
	If status is not correct	A. Check the status of input S1-IN. B. Check the safety switches SQ-EXC. C. Check the connections between the control panel and the switches.

P61.2	Label	S3-PIT
	Description	Safety chain - PIT safety devices
	Standby status	ON
	If status is not correct	A. Check the status of input S2-OVT. B. Check the 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 - CABIN safety devices
	Standby status	ON
	If status is not correct	A. Check the status of input S3-PIT. B. Check the car safety inputs on UDEC.C (see §18). C. Check the connections between the control panel and car.

P60.5	Label	S5-FPC
	Description	Safety chain - Landing doors Preliminary Contact
	Standby status	ON
	If status is not correct	A. Check the status of input S4-CAB. B. Check the safety contacts SQ-APP-Pn. C. Check the connections between the control panel and the landing doors.

P70.4	Label	S6-CPC
	Description	Safety chain - Car doors Preliminary Contact
	Standby status	ON
	If status is not correct	A. Check the status of input S5-FPC. B. Check the car safety inputs of the car doors on UDEC.C (see §18) C. Check the connections between the control panel and the car.

P60.3	Label	S7-LCK
	Description	Safety chain - Landing doors LOCKS
	Standby status	ON
	If status is not correct	A. Check the status of input S6-N.C. B. Check the safety contacts SQ-BLO-Pn. C. Check the connections between the control panel and the landing doors.

P43.2	Label	S8-END
	Description	Safety chain - END
	Standby status	ON
	If status is not correct	A. Check the status of input S7-LCK

P61.3	Label	SQ-SPF
	Description	Not used
	Standby status	OFF
	If status is 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 inserted)
	Standby status	OFF
	If status is not correct	A. Check the status of the contact SQ-FFA on the safe pit device. B. Check the connections between the control panel and contact.

P70.9	Label	ID
	Description	Position Reed input - ID (down direction)
	Standby status	ON
	If status is 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 board UDEC.C.

P70.10	Label	IS
	Description	Position Reed input - IS (up direction)
	Standby status	ON
	If status is 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 board UDEC.C.

P70.11	Label	IP
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections in the control panel.

P70.12	Label	IR
	Description	Position Reed input - IR (zero)
	Standby status	ON
	If status is 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 IR on the board UDEC.C.

P30.2	Label	SB-MEM
	Description	Pushbutton for emergency operation
	Standby status	ON
	If status is not correct	A. Check if the button is pressed / stuck. B. Check the connections between the board and the button. C. Check the status of output 24VA.

P31.2	Label	BRK
	Description	Brake input from the inverter (ON during the movement)
	Standby status	OFF
	If status is not correct	A. Check if there is any command running. B. Check the connections between the control panel and the inverter.

P31.1	Label	INV-OK
	Description	Inverter status
	Standby status	ON
	If status is not correct	A. Check the inverter status accessing to its display. B. Check the connections between the control panel and the inverter.

P26.2	Label	FBK-C
	Description	Feedback from the contactors (OFF when OK-TO-RUN is ON)
	Standby status	ON
	If status is not correct	A. Check if any of the contactors is glued. B. Check the status of 24VA. C. Check the connections between the control panel and the contactors.

P42.2	Label	FBK-EM
	Description	Feedback from the emergency relays on UDEC.P (OFF when OK-TO-RUN is ON or with SB-MEM pressed)
	Standby status	ON
	If status is not correct	A. Check if any of the relay on UDEC.P is glued. B. Check the status of 24VA. C. Check the connections between the control panel and the board UDEC.P.

P11.2	Label	IN-3
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections in the control panel.

P11.3	Label	IN-4
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections in the control panel.

P11.4	Label	IN-5
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections in the control panel.

P50.2	Label	IN-1
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections in the control panel.

P51.2	Label	IN-2
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections in the control panel.

P52.2	Label	SCREW
	Description	Screw lifted switch
	Standby status	ON
	If status is not correct	A. Check the status of the switch SQ-VIT on the safe pit device. B. Check the connections between the control panel and contact.

P90.1	Label	ALARM
	Description	Alarm button status
	Standby status	OFF
	If status is not correct	A. Check if the alarm button on the COP is pressed. B. Check the connections between the control panel and the COP.

15.02. Outputs

P40.1	Label	24VA
	Description	24V DC Auxiliary output
	Standby status	ON
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel.

P5.1	Label	24VM
	Description	24V DC Movement output
	Standby status	ON
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel.

P60.7	Label	24VV
	Description	24V DC Shaft output
	Standby status	ON
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel.

P70.5	Label	24VC
	Description	24V DC Car output
	Standby status	ON
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel.

P22.2	Label	OK-TO-RUN
	Description	Command for the power contactors and brake enable. ON during the movement or if the platform is not at the floor.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the connection of P21.4 and P20.2.

P24.4	Label	UPWARD
	Description	Command for the inverter - UPWARD. ON during the movement upward.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the status of 24VM and the connection of P20.2.

P24.3	Label	DOWNWARD
	Description	Command for the inverter - DOWNWARD. ON during the movement downward.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the status of 24VM and the connection of P20.2.

P24.2	Label	HIGH SPEED
	Description	Command for the inverter - HIGH SPEED. ON during the movement in high speed.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the status of 24VM and the connection of P20.2.

P25.2	Label	BRAKE
	Description	Command for the BRAKE release. ON during the movement.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the status of 24VM and the connection of P20.2.

P41.3/4	Label	OUT-1
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections inside the control panel.

P41.1/2	Label	OUT-2
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections inside the control panel.

P10.1	Label	FLOOR
	Description	Output for the “Car at floor” light. ON with car at any landing floor.
	Standby status	ON
	If status is not correct	A. Check the position sensors inputs (IR, IS, ID). B. Check the connections inside the control panel. C. Check the status of 24VA.

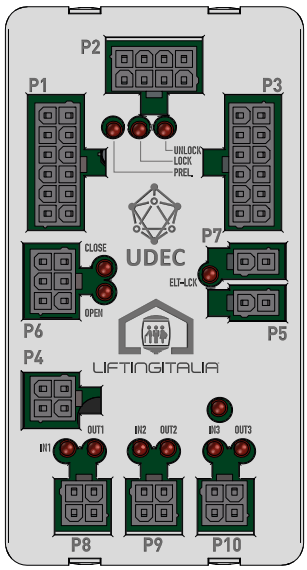
P55.1	Label	EMERGENCY MOTOR
	Description	Command for the emergency operation motor. ON during the automatic emergency operations (i.e., power failure).
	Standby status	OFF
	If status is not correct	A. Check the GRID input. B. Check the status of the 230V AC power supply. C. Check the connections inside the control panel. D. Check the status of 24VA.

P56.1	Label	INVERTER RESET
	Description	Command for inverter RESET. ON when operating a reset from HMI or platform.
	Standby status	OFF
	If status is not correct	A. Check the connections inside the control panel. B. Check the status of 24VA.

P57.1	Label	LIGHT
	Description	Command for shaft lights. ON during the movement or in error state.
	Standby status	OFF
	If status is not correct	A. Check the inputs status starting from the safety chain. B. Check the connections inside the control panel. C. Check the status of 24VA.

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

16. Landing door board UDEC.D input / output diagnostic



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

16.01. Inputs

P2.5	Label	PREL.
	Description	Safety chain - Landing door PRELIMINARY contact. ON with gate closed.
	Standby status	ON
	If status is not correct	A. Check the status of input S4-CAB (UDEC.M). B. Check the safety contact SQ-APP-Px. 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 gate locked.
	Standby status	ON
	If status is not correct	A. Check the status of input S6. (UDEC.M). B. Check the safety contact SQ-BLO-Px. 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 gate unlocked.
	Standby status	OFF
	If status is not correct	A. Check the contact SQ-PR-Px. 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	Supply for electric lock circuit (from shaft sliding contact)
	Standby status	OFF (no led)
	If status is not correct	A. Check connections between the board and the SQ-Pn contact.

P8.1	Label	IN1
	Description	Call pushbutton input. ON with button pressed.
	Standby status	OFF
	If status is not correct	A. Check if the button is pressed / stuck. 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 pushbutton disabled. For key switch: ON = pushbutton disabled, OFF = pushbutton enabled.
	Standby status	OFF
	If status is not correct	A. Check if the button / key switch is activated / stuck. B. Check the connections between the board and the device.

P10.1	Label	IN3
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections on the board.

16.02. Outputs

P2.4	Label	ELT-LCK
	Description	Command for the landing door ELECTRIC-LOCK. ON with car at floor and when the control panel unlocks the door.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the connections on the board.

P6.1	Label	OPEN
	Description	Command for the landing door operator - OPEN.
	Standby status	SPENTO
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the connections on the board.

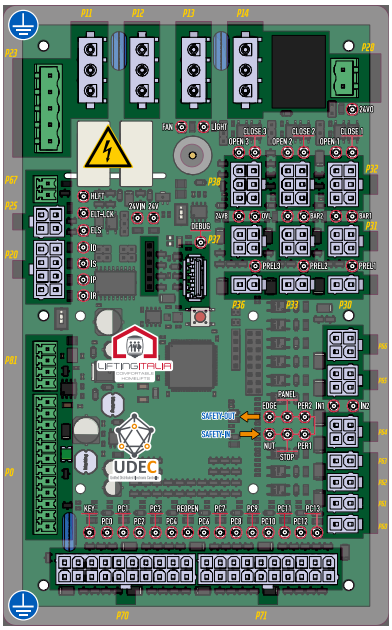
P6.2	Label	CLOSE
	Description	Command for the landing door operator - CLOSE.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the connections on the board.

P8.2	Label	OUT1
	Description	Call button light. ON with button pressed.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the connections between the board and the button.

P9.2	Label	OUT2
	Description	Car at the floor light. ON with car at floor.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the connections between the board and the button.

P10.2	Label	OUT3
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections on the board.

17. Cabin / Platform board UDEC.C input / output diagnostic



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

17.01. Inputs

P0.5	Label	24VIN
	Description	24V DC input voltage supply
	Standby status	ON
	If status is not correct	A. Check the output 24VC on the main board UDEC.M. B. Check the board wirings.

P70.3	Label	KEY
	Description	Key switch for COP disabling. ON with COP disabled.
	Standby status	OFF
	If status is not correct	A. Check if the key switch is activated / stuck. B. Check the connections between the board and the key switch. C. Check the status of output 24V.

P70.4...8	Label	PC0...PC04
	Description	Call pushbutton input. ON with button pressed.
	Standby status	OFF
	If status is not correct	A. Check if the button is pressed / stuck. B. Check the connections between the board and the button. C. Check the status of output 24V.

P70.9	Label	REOPEN
	Description	Door reopen pushbutton input. ON with button pressed.
	Standby status	OFF
	If status is not correct	A. Check if the button is pressed / stuck. B. Check the connections between the board and the button. C. Check the status of output 24V.

P71.3…10	Label	PC6…PC13
	Description	Call pushbutton input. ON with button pressed.
	Standby status	OFF
	If status is not correct	A. Check if the button is pressed / stuck. B. Check the connections between the board and the button. C. Check the status of output 24V.

P60.2	Label	NUT
	Description	Car safety chain - Nut sensor
	Standby status	ON
	If status is not correct	A. Check the status of input S3-PIT on the main board UDEC.M. B. Check the safety switch SQ-MAD. C. Check the connections between the board and the switch.

P61.2	Label	STOP
	Description	Car safety chain - COP emergency stop
	Standby status	ON
	If status is not correct	A. Check the status of input NUT. B. Check the emergency stop button SB-PEC. C. Check the connections between the board and the button.

P62.2 **P63.2**	Label	PER1 – PER2
	Description	Car safety chain - Perimeter sensors
	Standby status	ON
	If status is not correct	A. Check the status of input STOP. B. Check the safety perimeter switches SQ-PER1..4. C. Check the connections between the board and the switches.

P64.2	Label	PANEL
	Description	Car safety chain - Inspection panel
	Standby status	ON
	If status is not correct	A. Check the status of input PER2. B. Check the inspection panel contact SQ-COP. C. Check the connections between the board and the contact.

P65.2 **P66.2**	Label	EDGE
	Description	Car safety chain - COP edge
	Standby status	ON
	If status is not correct	A. Check the status of input PANEL. B. Check the COP edge switches SQ-BOR1 / 2. C. Check the connections between the board and the switches.

P64.4	Label	IN1
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections on the board.

P65.4 **P66.4**	Label	IN2
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections on the board.

P36.2	Label	PREL3
	Description	Not used
	Standby status	ON (bridged)
	If status is not correct	A. Check the connections on the board.

P37.4	Label	OVL
	Description	Overload switch input.
	Standby status	ON
	If status is not correct	A. Check the platform load. B. Check the status of 24VB. C. Check the connections between the control panel and the switch SQ-OVL (DomoFlex) or the weighing unit SP-CAB (IconLift). D. Check if the weighting unit is working properly (specific manual).

P20.8	Label	IR
	Description	Position Reed input - IR (zero)
	Standby status	ON
	If status is 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 output 24V.

P20.7	Label	IP
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections on the board.

P20.6	Label	IS
	Description	Position Reed input - IS (up direction)
	Standby status	OFF
	If status is 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 output 24V.

P20.5	Label	ID
	Description	Position Reed input - IS (down direction)
	Standby status	OFF
	If status is 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 output 24V.

17.02. Outputs

P70.11 **P71.11** **P81.1**	Label	24V
	Description	24V DC auxiliary output
	Standby status	ON
	If status is not correct	A. Look for any short-circuit on the cable / devices connected to the board. B. Check the status of output 24VIN.

P25.1	Label	ELT-LCK
	Description	Enable for the ELECTRIC-LOCK of the landing doors. ON during the unlock of the landing door.
	Standby status	OFF
	If status is not correct	A. Look for any short-circuit on the cable connected to P25. B. Check the status of input 24VIN. C. Check the communication status on the main board UDEC.M.

P25.4	Label	ELS
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections on the board.

P67.1	Label	HL-FT
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections on the board.

P12	Label	LIGHT
	Description	Supply for the car lights (230V AC). ON during the movement or in error state.
	Standby status	OFF
	If status is not correct	A. Check the inputs status of UDEC.M starting from the safety chain. B. Check the status of 24V. C. Check the status of QF-4 in the main control panel.

P32.6 **P35.6** **P38.6**	Label	24VO
	Description	Supply for the car lights (24V DC). ON during the movement or in error state or during a power failure.
	Standby status	OFF
	If status is not correct	A. Check the inputs status of UDEC.M starting from the safety chain. B. Check the status of 24V.

P31.2 **P34.2** **P37.2**	Label	OPEN1..3
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections on the board.

P32.2 **P35.2** **P38.2**	Label	CLOSE1..3
	Description	Not used
	Standby status	OFF
	If status is not correct	A. Check the connections on the board.

18. Error codes and troubleshooting

The error codes are divided in 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	Related to the main control panel / main components / electric safeties.
ERR_Cxxx	Related to the car / platform.
ERR_Dxxx	Related to the door boards UDEC.D.

SCREEN TEXT LEGEND	
X	= Specific kind of error.
n	= Number of UDEC.D board.
...	= Label assigned to the service (ex. -1C, 3, B, etc.).

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

In the following pages, the error diagnostics refers always to the IOs of the main board UDEC.M when no board name is reported.

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_0000 FW X	Firmware error. X = 0...4: hard error. X = 6...10: initialization 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 to LiftingItalia. The board reboots automatically.	-	-	NO	NO	YES
ERR_A000 24V	Undervoltage error at input of UDEC.M.	See IO diagnostic of input 24VIN.	-	-	YES	YES	YES
ERR_A001 24V-AUX	Short circuit / heavy overload detected on auxiliary 24V.	See IO diagnostic of output 24VA.	-	-	YES	YES	YES

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_A002 24V-MOV	Short circuit / heavy overload detected on motion 24V.	See IO diagnostic of output 24VM.	-	-	YES	YES	YES
ERR_A003 24V-VAN	Short circuit / heavy overload detected on shaft 24V.	See IO diagnostic of output 24VV.	-	-	YES	YES	YES
ERR_A004 24V-CAB	Short circuit / heavy overload detected on cabin 24V.	See IO diagnostic of output 24VC.	-	-	YES	YES	YES
ERR_A010 CAN FW X	CAN firmware error. X = 0: RX buffer overrun. X = 1: TX buffer overrun.	If the error occurs frequently take note of the error history and report to LiftingItalia. The board recovers automatically.	-	-	NO	NO	YES
ERR_A020 CAN HL X	CAN hardware error. X = specific error.	If the error occurs frequently take note of the error history and report to LiftingItalia. The board recovers automatically.	-	-	NO	NO	YES
ERR_A030 RelXClos	UDEC.M internal relay glued in closed position. X = 1: feedback OTR-1 / 2. X = 2: feedback DNW and BRK.	If there are errors related to 24V solve them and make a reset.	Check for possible errors in wirings of P22, P23, P24, P25. Disconnect P22, P23, P24, P25 and check if the error occurs again.	Replace the board.	YES	NO	YES
ERR_A031 RelXOpen	UDEC.M internal relay glued in open position. X = 1: feedback OTR-1 / 2. X = 2: feedback DNW and BRK.	If there are errors related to 24V solve them and make a reset.	Replace the board.	-	YES	NO	YES
ERR_A040 RedBotto	Redundancy checks on safe bottom inputs failed.	See IO diagnostic for LEDs BOTTOM and IN-4. The two inputs must switch in synchro.	Test the single inputs with a piece of wire connected to 24V.	Replace the board.	YES	NO	YES
ERR_B010 ContClos	Safety contactor KG-SEC1 / 2 glued in closed position.	See IO diagnostic of input FBK-C.	Replace both contactors.	-	YES	NO	YES
ERR_B011 ContOpen	Safety contactor KG-SEC1 / 2 glued in open position.	See IO diagnostic of input FBK-C.	Replace both contactors.	-	YES	NO	YES

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_B012 EmgClos	Emergency operation relay 1 / 2 glued in closed position.	See IO diagnostic of input FBK-EM.	Replace UDEC.P board.	-	YES	NO	YES
ERR_B013 EmgOpen	Emergency operation relay 1 / 2 glued in open position.	See IO diagnostic of input FBK-EM.	Replace UDEC.P board.	-	YES	NO	YES
ERR_B021 PositioX	Anomaly detected on the position sensors (see §8). X = 1: incorrect sequence.	See IO diagnostic of inputs IR, ID, IS.	-	-	YES	NO	YES
ERR_B030 Inverter	Inverter fault	See IO diagnostic of input INV.	Take note of the error code shown on the inverter display and contact LiftingItalia.	-	YES	YES	YES
ERR_B040 SafChain	Anomaly detected on the safety chain inputs of UDEC.M (ex. hole in the series).	See IO diagnostic from input S1-IN to S8-END.	Check the wirings looking for short circuits between the safety chain and other circuits.	Replace the board.	YES	NO	YES
ERR_B041 QF-SER	Magnetic circuit breaker QF-SER open.	See IO diagnostic of input S1-IN.	Check for short circuits on the safety chain.	-	YES	NO	YES
ERR_B042 Overtrav	Overtravel switch open (SQ-EXC1 / 2).	See IO diagnostic of input S2-OVT.	-	-	YES	NO	YES
ERR_B043 Belts	Pit's safety contacts open (pit emergency stop SB-PEF or safe pit contact SQ-FF).	See IO diagnostic of input S3-BLT.	-	-	YES	NO	YES
ERR_B044 SafCha 4	Movement interruption due to safety chain opening (S4-CAB - cabin safeties).	See IO diagnostic of input S4-CAR.	-	-	NO	NO	YES
ERR_B045 SafCha 5	Movement interruption due to safety chain opening (S5-APP – landing door preliminary).	See IO diagnostic of input S5-APP.	-	-	NO	NO	YES
ERR_B046 SafCha 6	Movement interruption due to safety chain opening (S6-CPC – car door preliminary).	See IO diagnostic of input S6-CPC.	-	-	NO	NO	YES
ERR_B047 SafCha 7	Movement interruption due to safety chain opening (S7-BLK - landing door locks).	See IO diagnostic of input S7-BLK.	-	-	NO	NO	YES

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_B050 t-traveX	Travel timeout (travel time + 5s). X = D: downward. X = A: upward.	Check that the travel parameter is properly set (see §20).	Check the speed of the cabin and that its movement is free from obstacles.	Check the connections between the control panel and the inverter.	YES	NO	YES
ERR_B060 Blackout	Blackout – absence of 230V AC supply.	See IO diagnostic of input GRID-OK.	-	-	NO	NO	NO
ERR_B061 Battery	Batteries not connected or discharged.	See IO diagnostic of input BAT-KO	-	-	NO	NO	NO
ERR_B070 PitAcces	Pit access detected either by the unlock of the lowest landing door or safety chain S3-PIT.	See IO diagnostic of output HL-FF and S3-PIT.	-	-	YES	NO	YES
ERR_C005 R24V CAB	Exceeded the maximum number of automatic resets for door board UDEC.C – 24V faults.	Check for short circuits / overload of the devices connected to the car board.	Check the connections of the car board to the control panel.	-	YES	YES	YES
ERR_C010 CAN CAB.	Exceeded the maximum number of automatic resets for door board UDEC.C – CAN faults.	Take note of the error history and report to LiftingItalia if the error occurs frequently.	Check the connections of the car board to the control panel.	Check for short circuits / overload of the devices connected to the car board.	YES	YES	YES
ERR_C021 ScrewSen	Screw lifted sensor engaged (SQ-VIT).	See IO diagnostic of input SCREW.	-	-	YES	NO	YES
ERR_C030 Overload	Overload detected by the weighting unit or the overload switch.	See IO diagnostic of input OVL on UDEC.C.	-	-	NO	NO	NO
“ERR_ C050 SWX CAB”	Status word notification of door board UDEC.C. X = 0: board reboot. X = 1: undervoltage. X = 2: overcurrent on 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 board recovers automatically.	-	-	NO	NO	YES
ERR_ Dn05 R24V “…”	Exceeded the maximum number of automatic resets for door board UDEC.D – 24V faults.	Check for short circuits / overload of the devices connected to the door board.	Check the connections of the door board to the shaft backbone cable.	-	YES	YES	YES
ERR_ Dn10 CAND “…”	Door board UDEC.D not alive on CAN bus.	Check the connections of the door board to the shaft backbone cable. The board recovers automatically.	Check for short circuits / overload of the devices connected to the door board.	-	NO	NO	YES

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
ERR_ Dn11 RCAN "..."	Exceeded the maximum number of automatic resets for door board UDEC.D – CAN faults.	Take note of the error history and report to LiftingItalia if the error occurs frequently.	Check the connections of the door board to the shaft backbone cable.	Check for short circuits / overload of the devices connected to the door board.	**YES**	**YES**	**YES**
ERR_ Dn20 SWX "..."	Status word notification of door board UDEC.D. X = 0: board reboot. X = 1: undervoltage. X = 2: overcurrent on electric lock output. X = 3...12: CAN error.	Take note of the error history and report to LiftingItalia if the error occurs frequently. The board recovers automatically.	-	-	**NO**	**NO**	**YES**

19. HMI menu and parameters

LEVEL_1	LEVEL_2	LEVEL_3	DESCRIPTION
OperMode			
	Normal		Set normal mode (§10).
	Mainten.		Set maintenance mode (§10).
	Commiss.		
		Overtrav	Overtravel commissioning (§10).
		BeltSafe	Belts safe commissioning (§10).
Paramete			
	General		General parameters.
	Machine		Machine parameters.
	Landings		Landing doors parameters.
	Cabin		Cabin parameters.
	CarDoors		Car doors parameters.
Diagnost			
	ErrorLog		General parameters.
		Read	The display shows three screens: date&time of error, error code and the system dump. Use the arrows to scroll the log (max 10 records).
		Clear	Clear the error log.
	UDEC.M		
		FW Vers.	Shows firmware version.
		CAN stat	Shows CAN-bus statistics.
	UDEC.C		
	UDEC.D		
Date&Time			Change date and time.
Login			Change user

The changes to these parameters need a board restart (turn off - turn on) to be effective.

19.01. 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

CAT	VIRTUAL ADRESS	DESCRIPTION	Min	Max	Default
Operators[1]	–	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[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

AREALIFTING®

IL PRODUTTORE DI MOBILITÀ VERTICALE

Via Caduti del Lavoro, 16/22

43058 Sorbolo Mezzani (PR)

Tel. +39 0521 695311

info@arealifting.com

www.arealifting.com

MADE IN ITALY