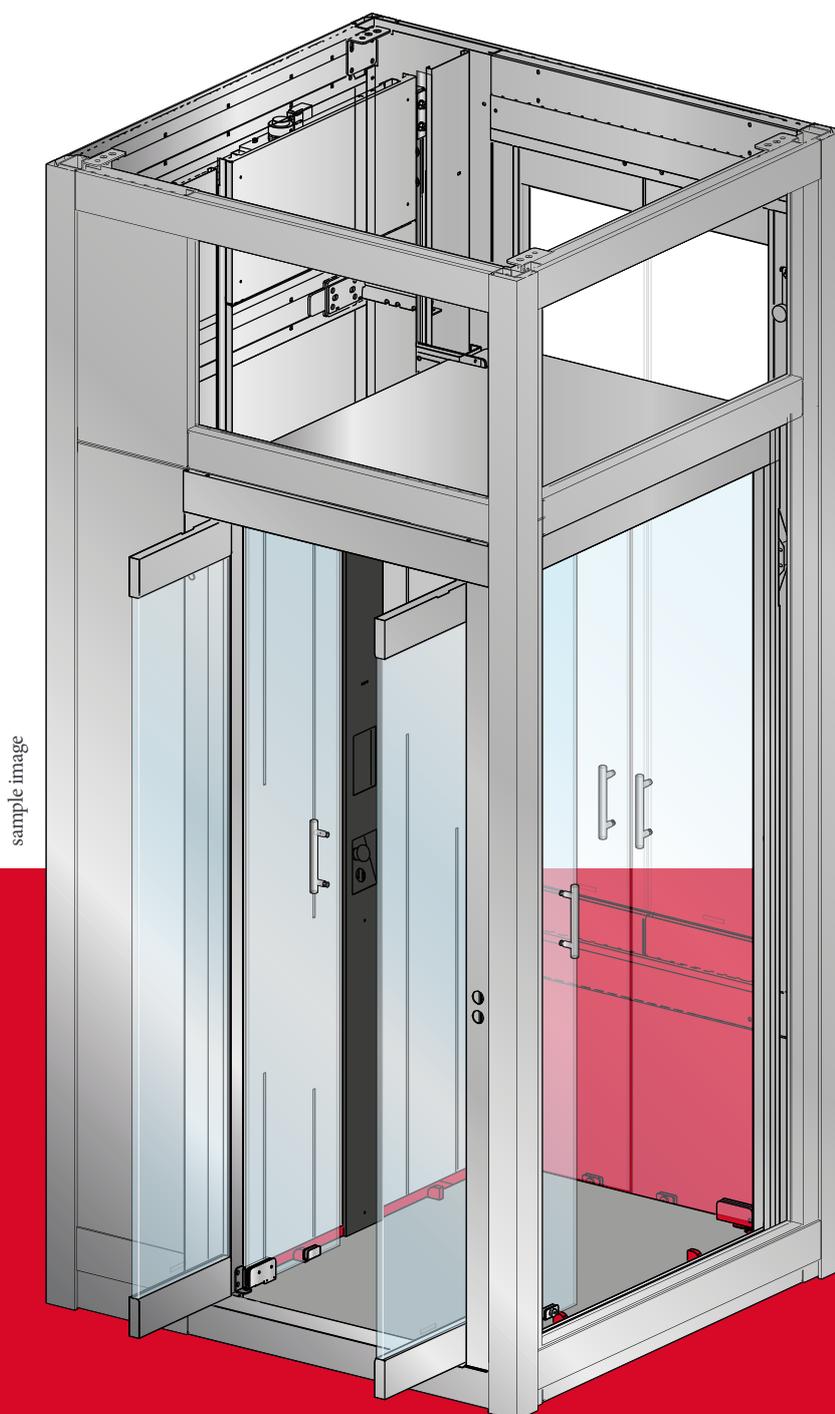


IconLift®

Electric screw driven platform lift with car



sample image

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

0	First edition	07.02.2022
<i>Rev.</i>	<i>Description</i>	<i>Date</i>

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1. Manual reading guide

NOTICE	
	<p>EN: Translation of the original instructions</p> <p>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.</p>
<p>READ THIS MANUAL CAREFULLY BEFORE INSTALLING AND USING THE PRODUCT</p> <p>Keep the technical documentation near the lift system for the entire life of the product. In the event of a change of ownership, the manual must be provided to the new user as an integral part of the product.</p>	

1.01. Preliminary information

NOTICE	
	<p>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.</p>
	<p>FOLLOW THE SUGGESTIONS AND RECOMMENDATIONS TO OPERATE IN SAFETY.</p> <p>Any unauthorised 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.</p>
	<p>QUALIFIED PERSONNEL.</p> <p>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.</p>

1.02. Personal safety 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.	
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.	

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

	CARPENTER'S PENCIL		DRILL + ELECTRIC SCREWDRIVER		CORNER GRINDER
	STEEL TAPE MEASURE		CORDLESS BLIND RIVET GUN		GLASS SUCKER
	HAMMER				



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.



ELECTRICAL CONNECTIONS

Symbol that identifies the connection of an electrical component.

For connection, refer to the electrical diagram and to the Manual IM.TEC.129 "ELECTRICAL EQUIPMENT (U.D.E.C.) INSTALLATION AND DIAGNOSTICS".

3. Liability and warranty conditions

RESPONSIBILITY OF THE INSTALLER

NOTICE



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 elevator / platform 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

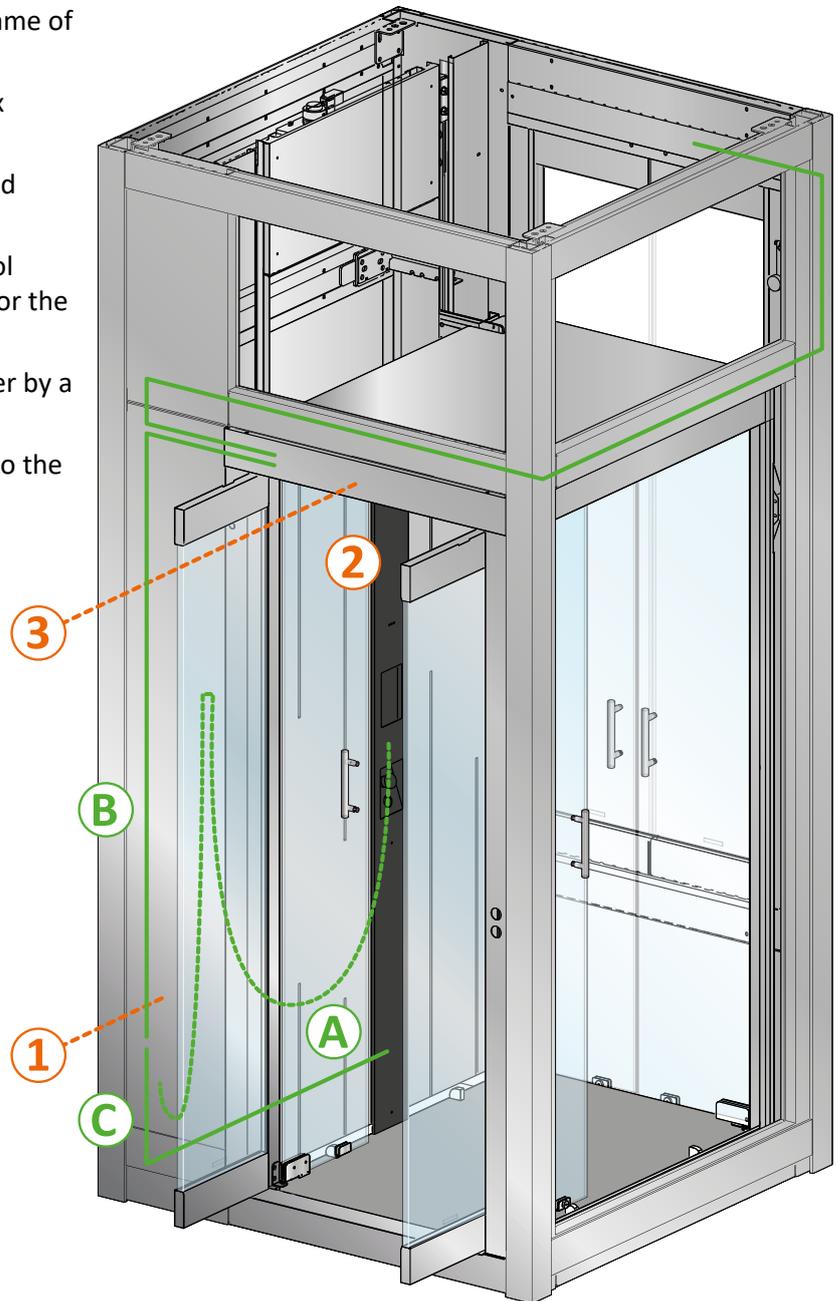
CAUTION	
	For more information on safety, liability and warranty conditions, receipt and storage of material on site, packaging, waste disposal, cleaning and storage of the product; refer to the "SAFETY INSTRUCTIONS AND SITE MANAGEMENT" manual.
NOTICE	
	PRELIMINARY CHECKS. Once the packaging has been 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.
	In this manual, we will talk about "SHAFT" meaning for it the base slab, the slab of landing and the vertical wall that connects its slabs.



5. Overview IconLift

The electrical equipment of Icon Lift consists of the following main components and connections:

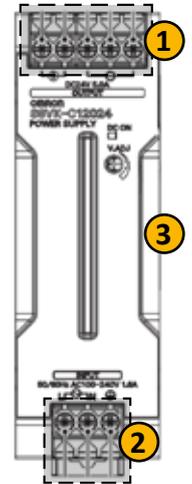
- ① Main control panel integrated in the frame of the lowest door.
- ② Cabin electronic board and inverter box located on the platform.
- ③ Landing doors' electronic boards located in the door frame.
- Ⓐ The platform is connected to the control panel by flexible cables, one reserved for the inverter and one for the cabin board.
- Ⓑ The door boards are connected together by a single cable.
- Ⓒ The pit devices are connected directly to the main control panel.



6. Main electronic devices.

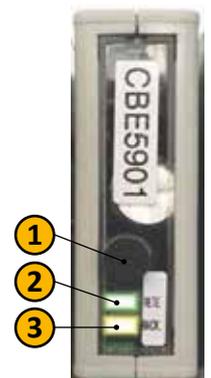
6.01. Auxiliary power supply (PS1)

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



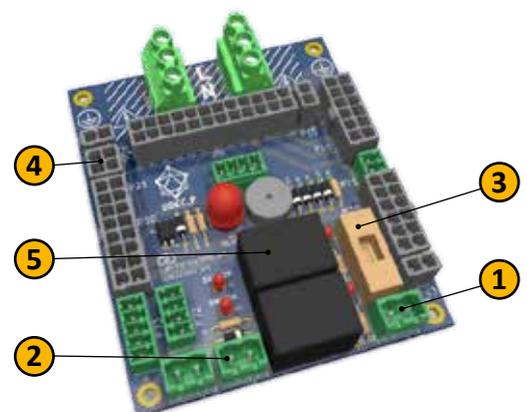
6.02. Battery charger (PS2)

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



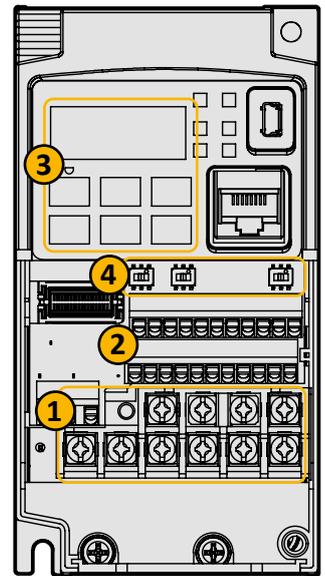
6.03. Pit board UDEC.P

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



6.04. Inverter MX2

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



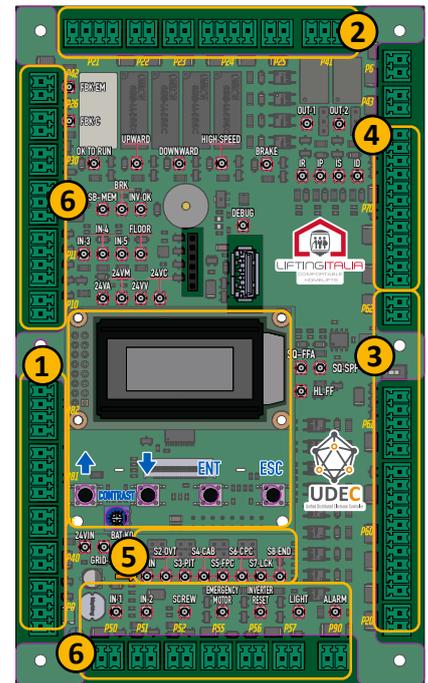
6.05. Weighting unit (PS-CAB)

- ① Power supply..
- ② Sensor connections..
- ③ Programming interface (see specific manual).
- ④ Relay output.



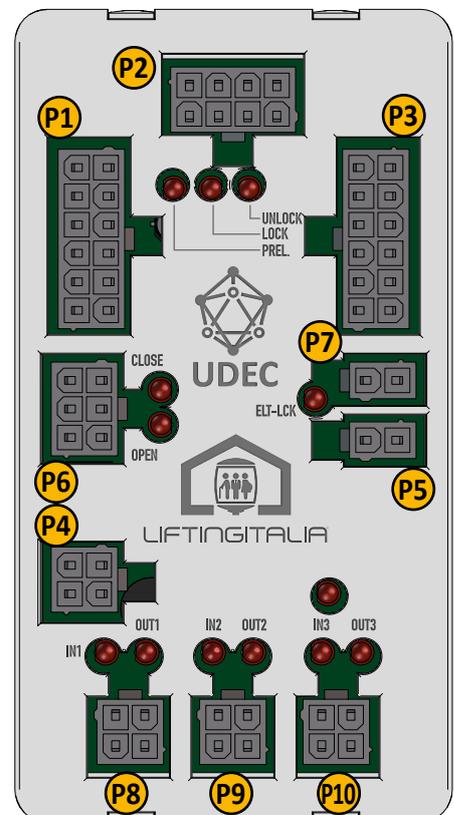
6.06. Main board UDEC.M (see §15 for details)

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



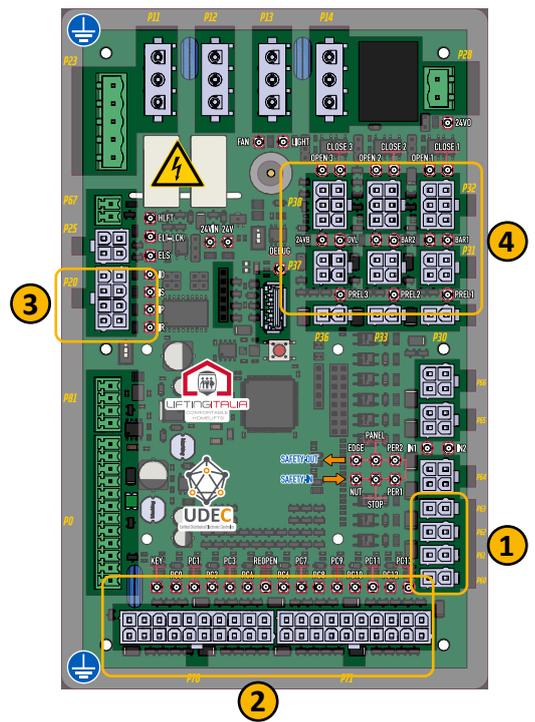
6.07. Landing door board UDEC.D (see §16 for details)

- Ⓟ1 Ⓟ3 Input / output connections to other landing door boards.
- Ⓟ2 Door lock contacts.
- Ⓟ4 Display.
- Ⓟ5 Electric lock output.
- Ⓟ6 Automatic door operator.
- Ⓟ7 Electric lock input.
- Ⓟ8 Ⓟ9 Ⓟ10 Pushbuttons / key-switches..



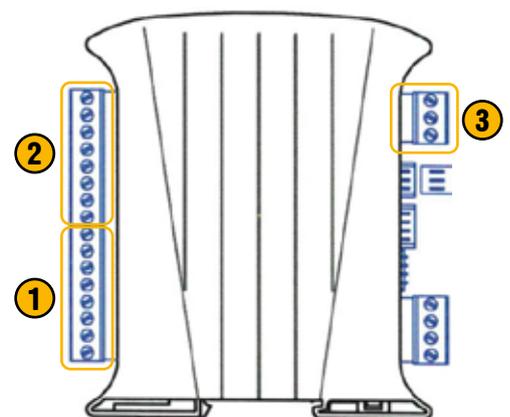
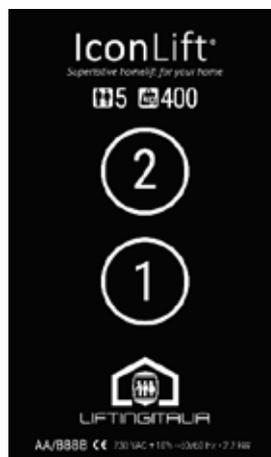
6.08. Platform / Cabin board UDEC.C (see §18 for details)

- ① Car safeties.
- ② COP pushbuttons.
- ③ Position sensors.
- ④ Car doors.



6.09. Touch COP and controller unit

- ① Signals for call buttons.
- ② Signals for display notifications.
- ③ COM connections.



7. First run connections

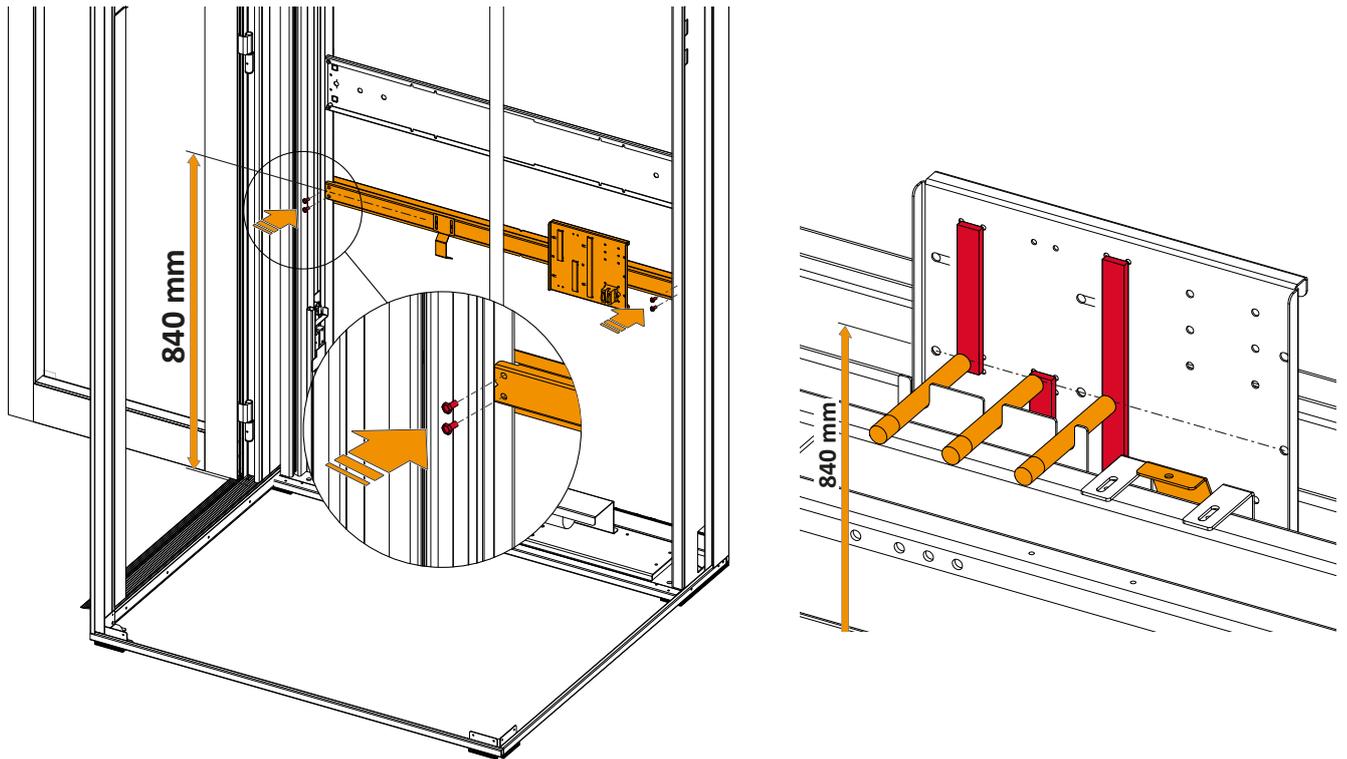
- Connect the flexible cables to the main control panel.
- Connect the pit devices to the main control panel.
- Connect the power supply to the main control panel.
- Use the pre-wired connectors supplied with the control panel to bridge temporary the landing doors safeties.
- Connect all the PE wires.
- Change the operating mode to MAINTENANCE. See §9 for a detailed description.
- Use the main board buttons or the lowest COP pushbuttons to move in maintenance mode.

8. Magnets' layout

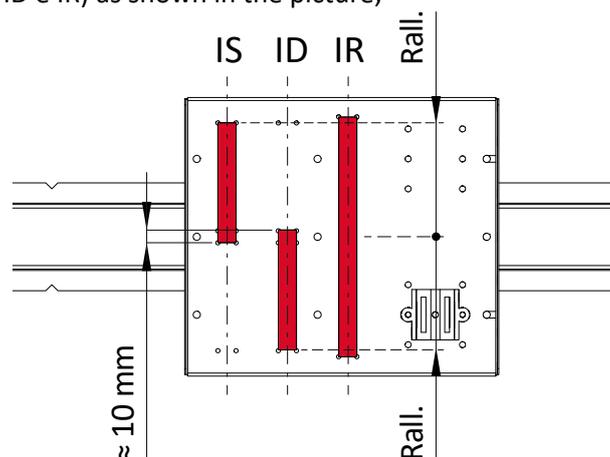
8.01. With Aluminium rails

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.

8.02. With Iron rails

CAUTION



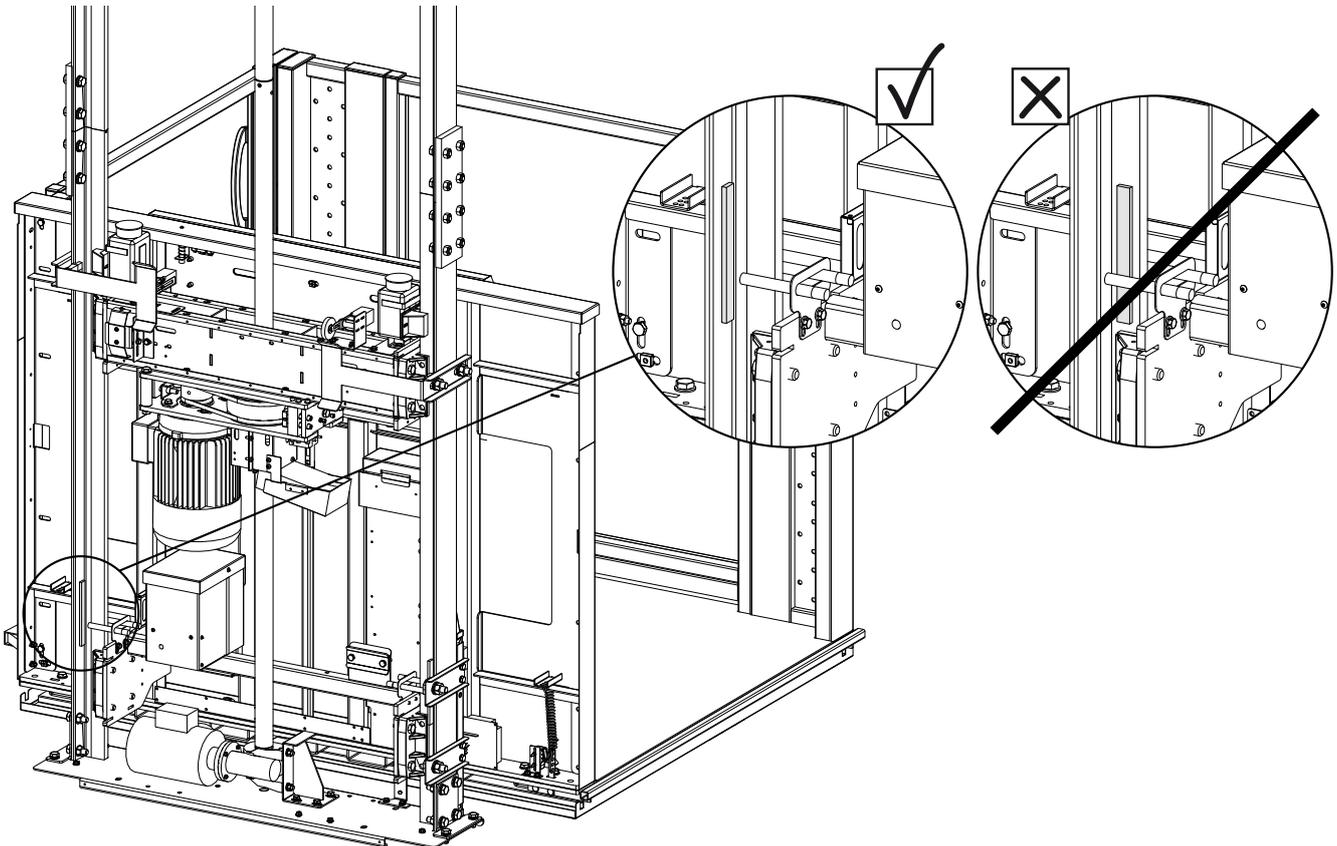
TWO ASSEMBLERS ARE NEEDED: one in the machine room in front of the control panel and the other near the sensors.

Adjust magnets position following this procedure:

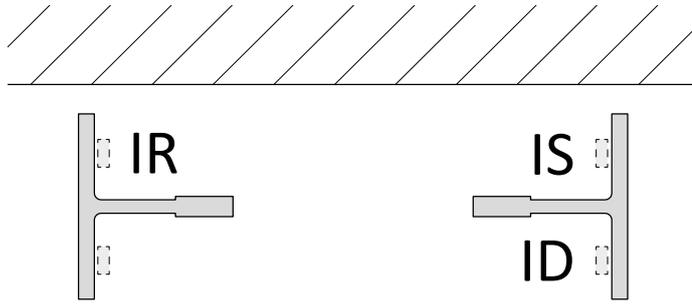
1. With the system under maintenance, bring the car to the exact floor level (floor and car levels aligned);
2. IS ascent sensor: gradually move from the top the 150 mm magnet towards the sensor, stopping just as the corresponding IS LED on the card turns on;
3. ID descent sensor: gradually move from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



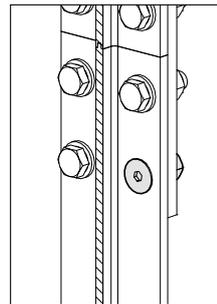
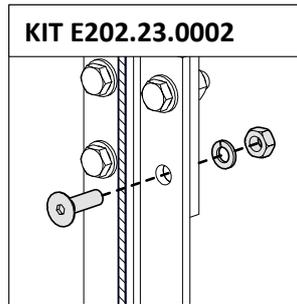
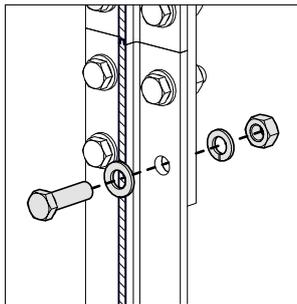
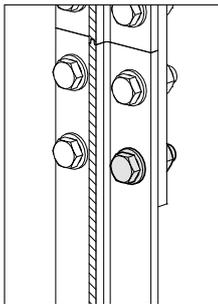
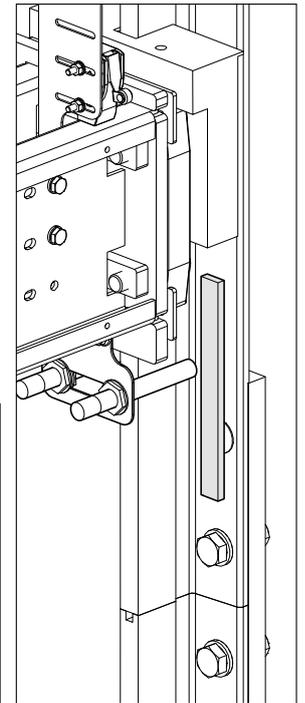
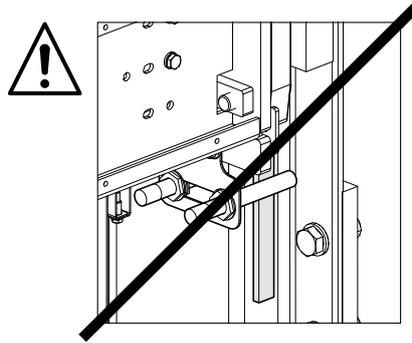
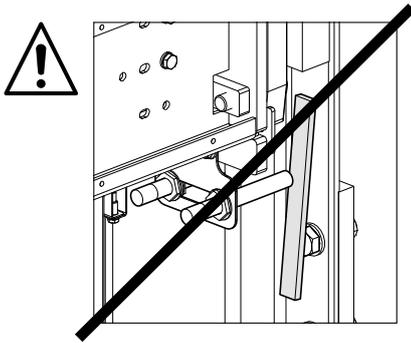
Pictures may slightly differ from the machine.

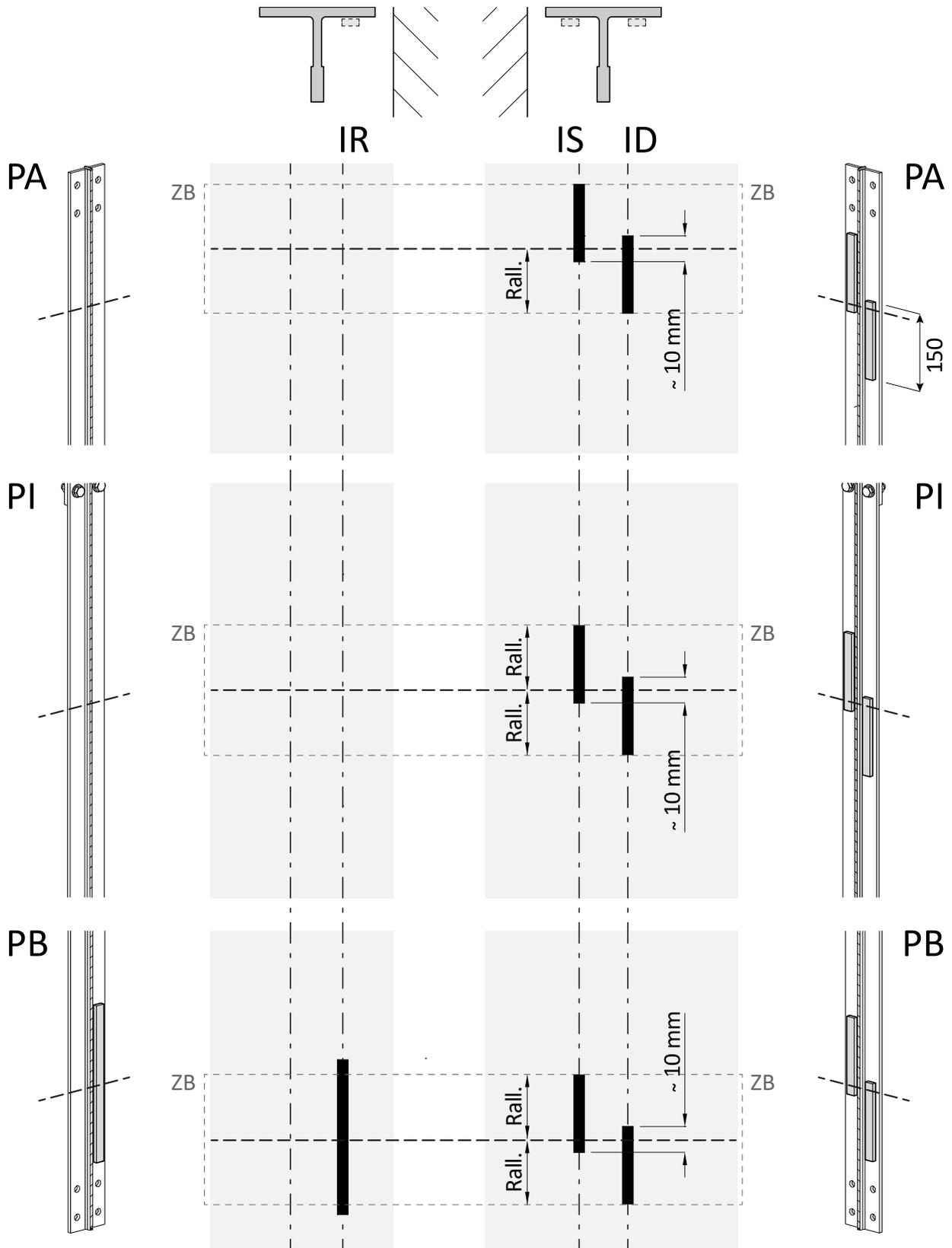


Hereunder, the recommended sensor location.



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





9. Acoustic signal

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

CONTINUOUS	The platform / car safeties have been activated. Check the safety edges.
CONTINUOUS 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.

10. Reset

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 § to check what errors must be reset by this command.
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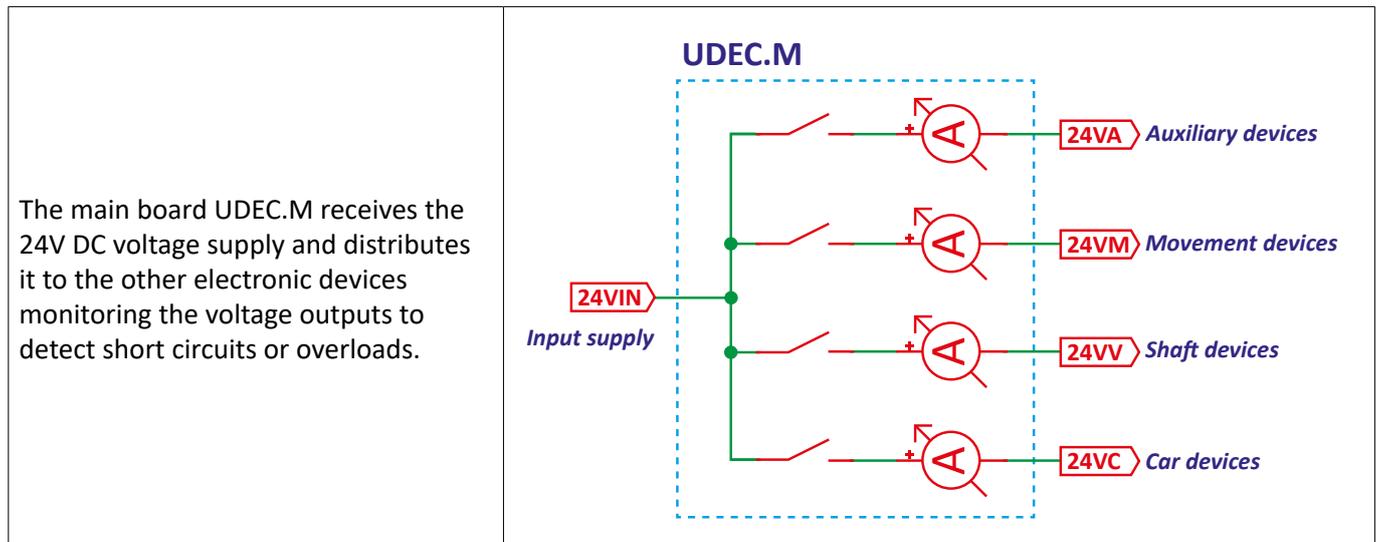
11. Operating modes

The technician can switch between the different operating modes using the HMI (see §).

The switch between normal and blackout mode is automatic, depending on the grid and platform status.

NORMAL	If the platform commands are enabled and no error is present, the local and remote commands can be used to move the platform.		
BLACK-OUT	<p>During a blackout the behaviour of the platform depends on its position:</p> <ul style="list-style-type: none"> • 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. 		
MAINTENANCE	<p>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").</p> <p>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.</p> <div style="text-align: center; background-color: yellow; padding: 5px;">CAUTION</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 30%;"></td> <td> <ul style="list-style-type: none"> • This operating mode can cause physical damage to the user / technician or damage the machine. • Be extremely careful when using these functions. </td> </tr> </table>		<ul style="list-style-type: none"> • This operating mode can cause physical damage to the user / technician or damage the machine. • Be extremely careful when using these functions.
	<ul style="list-style-type: none"> • This operating mode can cause physical damage to the user / technician or damage the machine. • Be extremely careful when using these functions. 		
COMMISSIONING	<p>As in maintenance mode, all local and remote commands are disabled.</p> <ul style="list-style-type: none"> • 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. <p>Use this mode to test the safety switch for overtravel or if there are problems related to the position sensors.</p>		

12. Power supply management



If any fault is detected the main board turns off one or more outputs, depending on the fault (see § ERR_A00x). At the start-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 § ERR_Dn05).

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

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

13. 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 § ERR_Dn11).

14. Cabin door's safety circuit

Icon Lift can be supplied with cabin doors (operated manually) to enable the automatic operation from the COP in this way:

ALL CABIN DOORS CLOSED	Automatic operation and light barrier disabled.
ONE OR MORE CABIN DOOR OPEN	Hold to run operation and light barrier enabled..

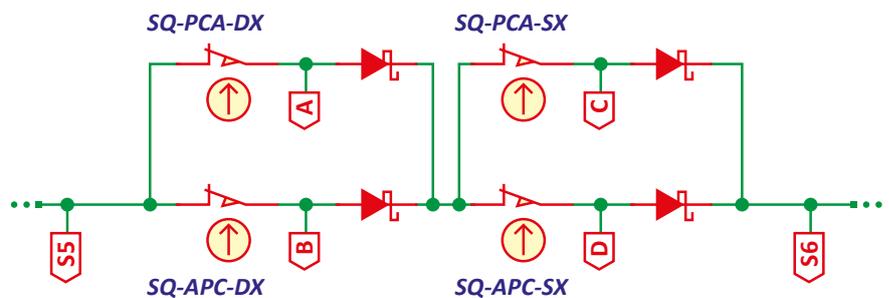
Each of the two door leaves has two safety contact (DX = right, SX = left, viewed from the inside of the cabin)::

SQ-APC-DX / SX	Closed when the door leaf is closed; open otherwise.
SQ-PCC-DX / SX	Closed when the door leaf is open; open otherwise.

These contacts are connected in the UDEC.A electronic board as shown below.

Where:

- signals S5 and S6 are the safety chain signals upstream and downstream the cabin door safety circuit;
- signals A, B, C, D: give the information about the door leaf status and are used to monitor the safety circuit status.



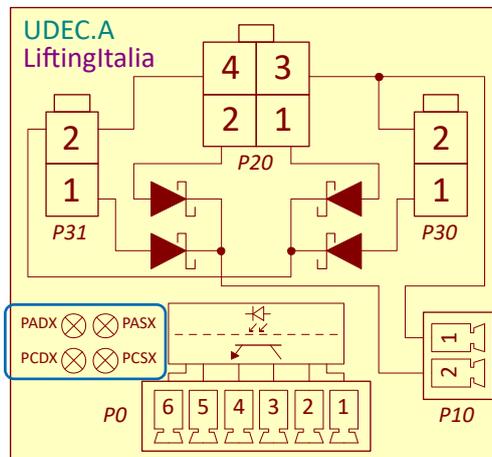
The following table summarizes the operation logic:

A	B	C	D	CIRCUIT CHECK	LIGHT BARRIER	MODALITÀ PULSANTIERA
0	1	0	1	OK	Disabled	Automatic
1	0	1	0	OK	Enabled	Hold to run
1	0	0	1	OK	Enabled	Hold to run
0	1	1	0	OK	Enabled	Hold to run
1	1	-	-	Error	Enabled	Hold to run
-	-	1	1	Error	Enabled	Hold to run

In case of error the platform continues working but with light barrier enabled and hold to run operation. The main board shows a specific error message, see §18 for troubleshooting.

15. 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

16. ProInsulation 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.

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 §). 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 §) 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.

17.02. 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.

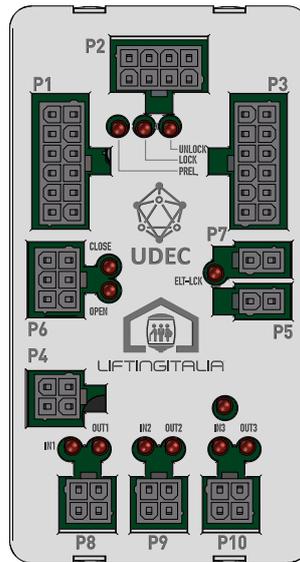
P55.1	Label	EMERGENCY MOTOR
	Description	Command for the emergency operation motor. ON during the automatic emergency operations (i.e., power failure).
	Standby status	 OFF
	If status is not correct	A. Check the GRID input. B. Check the status of the 230V AC power supply. C. Check the connections inside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

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



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

18.01. 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.

18.02. 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.

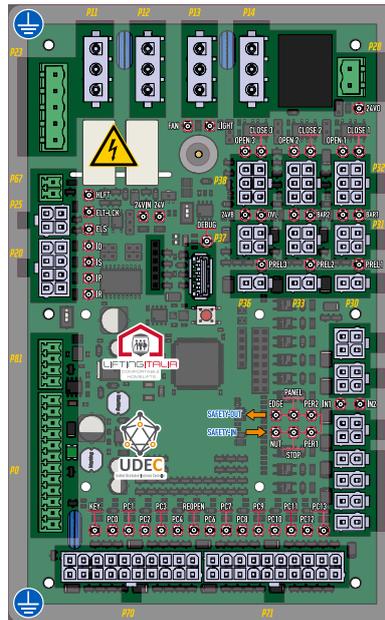
P6.2	Label	CLOSE
	Description	Command for the landing door operator - CLOSE.
	Standby status	 OFF
	If status is not correct	A. Look for any short-circuit outside the control panel. B. Look for any short-circuit inside the control panel. C. Check the connections on the board.

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.

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



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

19.01. 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	Label	PC6
	Description	Car door n.2 safety circuit input: right door leaf closed. ON with door leaf closed (see §13, signal B)..
	STANDBY status	 ON
	If status is NOT CORRECT	A. Check the safety switches SQ-APC2-DX. B. Check the connections between the board and the switch. C. Check the status of output 24V.

P71.4	Label	PC7
	Description	Car door n.2 safety circuit input: right door leaf open. ON with door leaf closed (see §13, signal A).
	STANDBY status	 OFF
	If status is NOT CORRECT	A. Check the safety switches SQ-PCA2-DX. B. Check the connections between the board and the switch. C. Check the status of output 24V.

P71.5	Label	PC8
	Description	Car door n.2 safety circuit input: left door leaf closed. ON with door leaf closed (see §13, signal D).
	STANDBY status	 ON
	If status is NOT CORRECT	A. Check the safety switches SQ-APC2-SX. B. Check the connections between the board and the switch. C. Check the status of output 24V.

P71.6	Label	PC9
	Description	Car door n.2 safety circuit input: left door leaf open. ON with door leaf closed (see §13, signal C).
	STANDBY status	 OFF
	If status is NOT CORRECT	A. Check the safety switches SQ-PCA2-SX. B. Check the connections between the board and the switch. C. Check the status of output 24V.

P71.7	Label	PC10
	Description	Car door n.1 safety circuit input: right door leaf closed. ON with door leaf closed (see §13, signal B).
	STANDBY status	 ON
	If status is NOT CORRECT	A. Check the safety switches SQ-APC1-DX. B. Check the connections between the board and the switch. C. Check the status of output 24V.

P71.8	Label	PC11
	Description	Car door n.1 safety circuit input: right door leaf open. ON with door leaf closed (see §13, signal A).
	STANDBY status	 OFF
	If status is NOT CORRECT	A. Check the safety switches SQ-PCA1-DX. B. Check the connections between the board and the switch. C. Check the status of output 24V.

P71.9	Label	PC12
	Description	Car door n.1 safety circuit input: left door leaf closed. ON with door leaf closed (see §13, signal D).
	STANDBY status	 ON
	If status is NOT CORRECT	A. Check the safety switches SQ-APC1-SX. B. Check the connections between the board and the switch. C. Check the status of output 24V.

P71.10	Label	PC13
	Description	Car door n.1 safety circuit input: left door leaf open. ON with door leaf closed (see §13, signal C).
	STANDBY status	 OFF
	If status is NOT CORRECT	A. Check the safety switches SQ-PCA1-SX. B. Check the connections between the board and the switch. C. Check the status of output 24V..

P60.2	Label	NUT
	Description	Car safety chain – Nut sensor
	STANDBY status	 ACCESO
	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.
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.
P30.2	Label	PREL1
	Description	Door 1 safety circuit.
	STANDBY status	 ON
	If status is NOT CORRECT	A. Check the status of input S5-FPC on the main board UDEC.M. B. Check the door switches SQ-APC and SQ-PCA. C. Check the connections between the board and the switches.
P33.2	Label	PREL2
	Description	Door 2 safety circuit
	STANDBY status	 ON
	If status is NOT CORRECT	A. Check the status of input PREL1 on the board. B. Check the door switches SQ-APC and SQ-PCA. C. Check the connections between the board and the switches.
P36.2	Label	PREL3
	Description	Not used.
	STANDBY status	 ON (bridged)
	If status is NOT CORRECT	A. Check the connections on the board.

P31.4	Label	BAR1
	Description	Light barrier 1 input
	STANDBY status	 ON
	If status is NOT CORRECT	A. Check the status of 24VB output (supply for the light barrier). B. Check the status of the light barrier and its controller. C. VCheck the connections between the board and the light barrier.

P34.4	Label	BAR2
	Description	Light barrier 2 input
	STANDBY status	 ON
	If status is NOT CORRECT	A. Check the status of 24VB output (supply for the light barrier). B. Check the status of the light barrier and its controller. C. Check the connections between the board and the light barrier.

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 weighing 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.

19.02. 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.

P31.1 P34.1 P37.1	Label	24VB
	Description	24V DC output for light barriers and weighing unit.
	STANDBY status	 ON
	If status is NOT CORRECT	A. Look for any short-circuit on the connections of the light barriers and weighing unit. B. weighing unit. C. Check the status of input 24V.

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.

P14	Label	FAN
	Description	Command for the car fan (230V AC).
	STANDBY status	 OFF
	If status is NOT CORRECT	A. Check the connections on the board. 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.

20. 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 §)
Soft reset	YES means that is possible to reset the error from the COPs on the platform (see §)
Log	YES means that the error occurrence is stored in the error log (see §)



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	SI
ERR_A000 24V	Undervoltage error at input of UDEC.M.	See IO diagnostic of input 24VIN.	-	-	SI	SI	SI
ERR_A001 24V-AUX	Short circuit / heavy overload detected on auxiliary 24V.	See IO diagnostic of output 24VA.	-	-	SI	SI	SI

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.	-	-	SI	SI	SI
ERR_A003 24V-VAN	Short circuit / heavy overload detected on shaft 24V.	See IO diagnostic of output 24VV.	-	-	SI	SI	SI
ERR_A004 24V-CAB	Short circuit / heavy overload detected on cabin 24V.	See IO diagnostic of output 24VC.	-	-	SI	SI	SI
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	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 to Liftingitalia. The board recovers automatically.	-	-	NO	NO	SI
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.	SI	NO	SI
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.	-	SI	NO	SI
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.	SI	NO	SI
ERR_B010 ContClos	Safety contactor KG-SEC1 / 2 glued in closed position.	See IO diagnostic of input FBK-C.	Replace both contactors.	-	SI	NO	SI
ERR_B011 ContOpen	Safety contactor KG-SEC1 / 2 glued in open position.	See IO diagnostic of input FBK-C.	Replace both contactors.	-	SI	NO	SI
ERR_B012 EmgClos	Emergency operation relay 1 / 2 glued in closed position.	See IO diagnostic of input FBK-EM.	Replace UDEC.P board.	-	SI	NO	SI
ERR_B013 EmgOpen	Emergency operation relay 1 / 2 glued in open position.	See IO diagnostic of input FBK-EM.	Replace UDEC.P board.	-	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 §). X = 1: incorrect sequence.	See IO diagnostic of inputs IR, ID, IS.	-	-	SI	NO	SI
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.	-	SI	SI	SI
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.	SI	NO	SI
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.	-	SI	NO	SI
ERR_B042 Overtrav	Overtravel switch open (SQ-EXC1 / 2).	See IO diagnostic of input S2-OVT.	-	-	SI	NO	SI
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.	-	-	SI	NO	SI
ERR_B044 SafCha 4	Movement interruption due to safety chain opening (S4-CAB - cabin safeties).	See IO diagnostic of input S4-CAR.	-	-	NO	NO	SI
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	SI
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	SI
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	SI
ERR_B050 t-traveX	Travel timeout (travel time + 5s). X = D: downward. X = A: upward.	Check that the travel parameter is properly set (see §).	Check the speed of the cabin and that its movement is free from obstacles.	Check the connections between the control panel and the inverter.	SI	NO	SI
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.	-	-	SI	NO	SI

SCREEN [ENG]	Description	Action #1	Action #2	Action #3	Reset	Soft reset	Log
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.	-	SI	SI	SI
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.	SI	SI	SI
ERR_C021 ScrewSen	Screw lifted sensor engaged (SQ-VIT).	See IO diagnostic of input SCREW.	-	-	SI	NO	SI
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_C040 LighBarr”	Light barrier engaged.	See IO diagnostic of inputs BAR1 BAR2 on UDEC.C.	-	-	NO	NO	NO
“ERR_C041 CabDoorX”	Car door’s safety circuit error: X = 1: right door leaf both open and closed. X = 2: left door leaf both open and closed. X = 3: anomaly on right door leaf circuit. X = 4: anomaly on left door leaf circuit.	Check IO diagnostics for inputs PC6...PC13 on UDEC.C.	Replace UDEC.A board.	-	SI	NO	SI
“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	SI
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.	-	SI	SI	SI
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	SI

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.	SI	SI	SI
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	SI

21. HMI menu and parameters

1 OperMode (Operating Mode)	
Normal	> set normal mode (see §)
Mainten	> set maintenance mode (see §)

2 Commissi (Commissioning)	
Overtrav	> overtravel commissioning (see §)
BeltSafe	> belt safe commissioning (see §)

3 Paramete (Parameters)	
PMT_ A000 Language	> 0=ITA, 1=ENG
PMT_ A001 DateForm	> 0=DD/MM/YY, 1=MM/DD/YY
PMT_ B000 Travel	> xxxx [mm]

4 Statist (Statistics)	
STA_000 CAN.M	> Shows CAN error statistics for UDEC.M

5 ErrorLog (Error Log)	
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

6 Date&Tim (Date and Time)	
> Change date & time	

7 FW Vers (Firmware version)	
> Shows firmware version	



The changes to these parameters need a board restart (turn off - turn on) to be effective. In case of more than two floors the parameter is set to the maximum inter-floor.



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