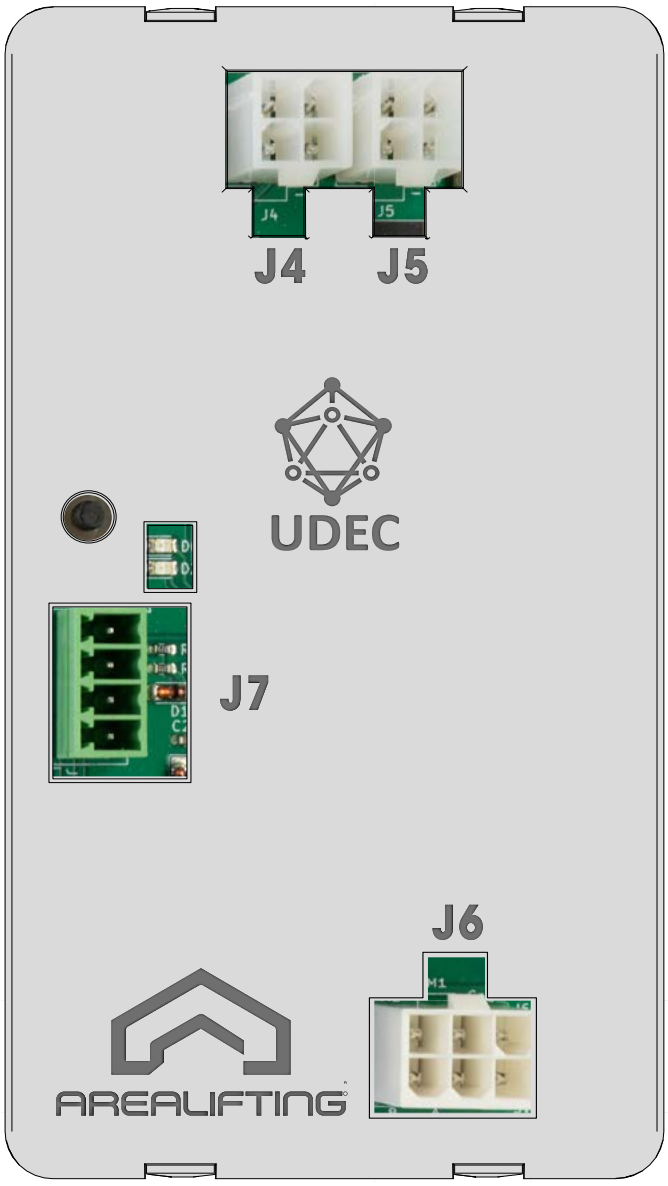
EN

# L2D card

*Door drive card*

## CONFIGURATION INSTRUCTIONS

(Rev.0)




immagini d'esempio

AREALIFTING®
THE VERTICAL MOBILITY MANUFACTURER

20250505

| | | |
|---|---|---|
| | | |
| 0 | First Edition | 05.05.2025 |
| *Rev.* | *Description* | *Date* |

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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**<br>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!**<br>Symbol that identifies important information to be scrupulously observed. |
|  | **ELECTRICAL CONNECTIONS**<br>Symbol that identifies the connection of an electrical component. |

# 3. Liability and warranty conditions

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

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

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

# 4. General requirements and installation site management

## 4.01. General requirements

**IMPORTANT!**

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

**NOTICE**

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

**WARNING**

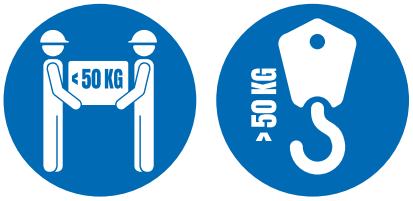
**SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:**

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

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

**CAUTION**


**The assembly must be performed by a MINIMUM 2 people**




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

# 5. Board configuration

## 5.01. Dip Switch

They are used to configure the CAN address of the binary-coded card.

0

1

2

3

4

5

6

7

*Dual port switch*

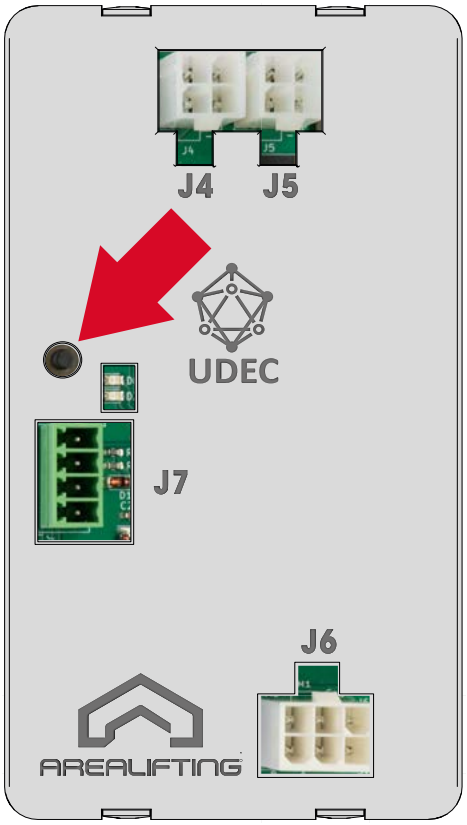
In configurations with double-leaf automatic doors, two L2D boards must be used, both addressed according to the diagram above with the only difference being that one of the two boards must also have switch 1 high.

Example switch configuration with dual port to Services 1:

*Services 1*

*Services 1*
*(second tab)*

## 5.02. Self-learning




01. Disconnect connector P4 from the UDEC.D port board so that no CAN commands reach the L2D operator board

02. If fitted, keep the door lock unlocked so that it does not interfere with the learning procedure.

03. Disconnect connector J4 on the L2D board and accompany the door close to the closed position.

04. Power up the L2D board by reconnecting connector J4.

05. Press and hold the small button shown in the figure below for a few seconds until the two status LEDs on the L2D board start flashing rapidly.

06. Wait for the automatic procedure to detect the open and closed positions, once the procedure is complete the card will command a close.

07. Verify correct learning by giving open/close commands via single clicks to the learning button.

08. Resetting the door lock

**IMPORTANT!**

Reconnect P4 on the UEDC.D board once this procedure has been completed

**INFORMATION**
In the case of double doors, teach-in must be carried out individually on both boards.

# 6. Parameters

The new L2D Operator Parameters section can be found at the end of the UDEC Parameters menu shown in the Electrical equipment manual, under 'Operator'.

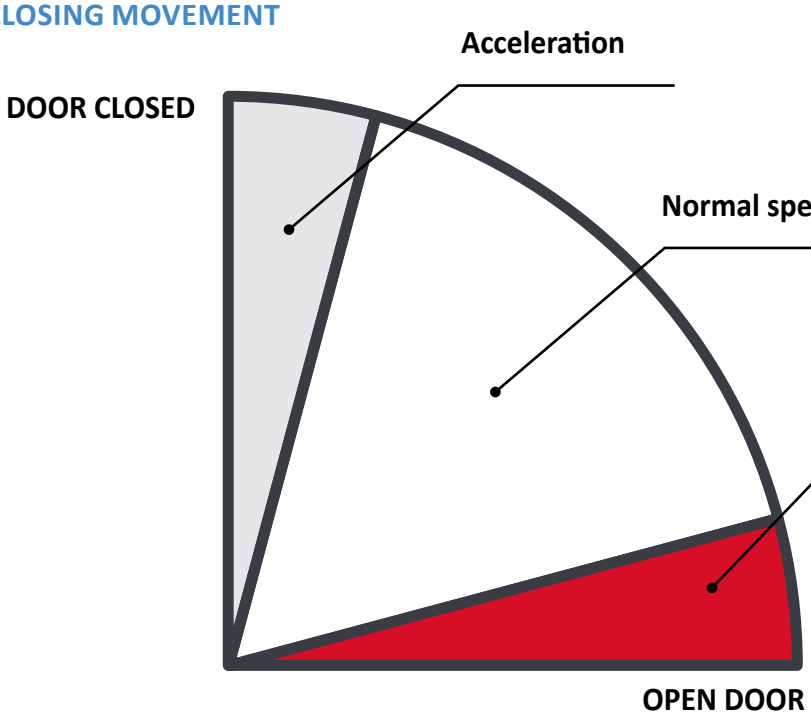
| SCREEN [ENG] | Description | Min | Max | Default |
|---|---|---|---|---|
| **PMT_E000 Op Speed** | Open door speed | **3** | **8** | **3** |
| **PMT_E001 Cl Speed** | Close door speed | **3** | **8** | **3** |
| **PMT_E002 ds DecOp** | Deceleration space on opening | **0** | **1000** | **200** |
| **PMT_E003 ds DecCl** | Deceleration space on closing | **0** | **1000** | **200** |
| **PMT_2003 CurObsOp** | Opening obstacle detection threshold | **600** | **2000** | **1000** |
| **PMT_2004 CurObsCl** | Closing obstacle detection threshold | **600** | **2000** | **1000** |
| **PMT_2008 DoorSide** | Door side | **0** | **1** | **0** |
| **PMT_2009 DoorLigt** | PMT_2009 DoorLigt | **300** | **2000** | **1000** |
| **PMT_200D PWM Clos** | Closing force | **0** | **1000** | **200** |
| **PMT_E000 Vel Aper** | Door opening speed | **3** | **8** | **3** |
| **PMT_E001 Vel Chiu** | Door closing speed | **3** | **8** | **3** |
| **PMT_E002 ds DecAp** | Opening deceleration start distance | **0** | **1000** | **200** |
| **PMT_E003 ds DecCh** | Closing deceleration start distance | **0** | **1000** | **200** |
| **PMT_2003 CorOstAp** | Opening obstacle detection sill | **600** | **2000** | **1000** |
| **PMT_2004 CorOstCh** | Closing obstacle detection sill | **600** | **2000** | **1000** |
| **PMT_2008 DoorSide** | Door hinge side | **0** | **1** | **0** |
| **PMT_2009 DoorLigt** | Door opening | **300** | **2000** | **1000** |
| **PMT_200D PWM Clos** | Pulling force | **0** | **1000** | **200** |

n the case of a double-leaf door, the parameters set will also be replicated by UDEC on the second board

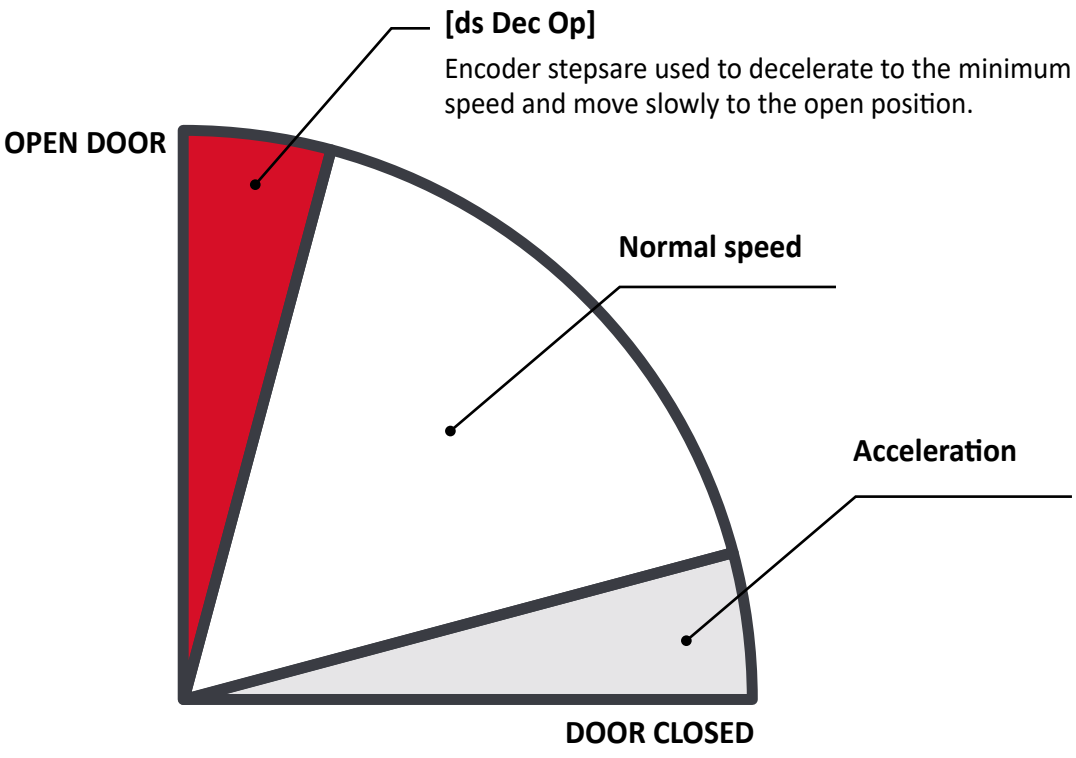
## 6.01. PMT_E002 ~ PMT_E003

These absolutely mirror-image each other parameters determine the space (understood as the Motor's encoder step) in which the door must move at minimum speed to make the final approach. Increasing this parameter can help compensate for door inertia by preventing the door from slamming at the end of movement

### 08.0.01 CLOSING MOVEMENT




### 08.0.02 OPENING MOVEMENT



## 6.02. PMT_2008

Door hinge side: this parameter is normally set with the teach-in and should not be changed unless there are errors in the teach-in.

## 6.03. PMT_2009

Door Light: Indicates the number of encoder steps the motor must take to complete an opening cycle, it is set automatically with the teach-in. Changing this parameter could be used for fine tuning the ‘open’ position.

## 6.04. PMT_200D

PWM Door Closing: indicates the force to be applied to hold the door in place while waiting for the lock to engage. Setting an excessively high value could create malfunctions due to excessive current demand, it is recommended not to exceed this and to set a value between 100 and 400.

**INFORMATION**
For the parameters to be set correctly, the switchboard must be restarted after the change. Parameters encoded as PMT_Exxx are saved in UDEC's memory, parameters encoded as PMT_2xxx are read via CAN and saved in the L2D operator's flash memory, so the updated values of the latter may not be updated after restarting if you do not wait for the switchboard to finish initialising all CAN peripherals (including the L2D operator) and cause an overwriting with the default parameters.

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