



LIFTING TECHNOLOGY



**INSTRUCTION MANUAL  
MOTOR CONTROLLERS  
LT Lddb4  
LT Lddb8**





Do not use the motor controller before all operators have carefully read this manual. Failure to operate the equipment as here described may cause injury or even death.

**Retain this manual for future reference and use.**

Before using the controller, please fill in the following information.

Such information must be communicated every time that the LITEC maintenance service is called.

<b>Model number</b>	
<b>Instructions for use</b>	
<b>Serial number</b>	
<b>Purchase date</b>	
<b>Voltage</b>	

If you are in doubt or need any further information, please contact LITEC.



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## 1. INFORMATION

### 1.1 General information

Thank you for choosing an Exe-Drive motor controller of LITEC Italia S.p.A.

This instruction manual contains important information about the installation and the use of the equipment. Please read and follow these instructions carefully. Should some passages not be clear, please contact our Technical Office.

You should keep this manual clean, complete and in a legible condition for future references. Furthermore, supplementary to the manual, the statutory regulations governing general accident prevention and environmental protection are to be enforced.

This manual and the other documents contained in the packing are an integral part of the controller supplied to you, and must be carefully kept, protected against humidity and any other deteriorating agents, for all the lifecycle of the controller. They must follow the controller in case of transfer to any other user or new owner.

### 1.2 Important Safety Information

All safety and operating instructions should be read before the equipment is installed or operated. Before installing and using the controller, the instructions and advice mentioned in this manual and attached documents must be carefully read and fully observed.

Operating and service personnel must have read and understood the operating instructions, in particular the safety instructions, before commencing work. Protective equipment must be made available for operating and service personnel and worn at all times. These sections should be adhered to and followed to ensure safe reliable and correct function of the product, and to eliminate the possibility of damage persons or equipment.

The following general safety precautions have to be observed during all phases of operation, service, and the repair of this equipment. Failure to comply with these precautions or with specific warnings in this manual violates safety standards of design, manufacture, and the intended use of this equipment.

#### 1.2.1 Safety precautions

- Do not use the controller if it is damaged, malfunctioning, or functioning in an unusual way.
- Do not make modifications nor apply accessories other than those provided by LITEC Italia S.p.A.
- Do not use the controller if this is not perfectly efficient, even if it can work.
- Do not use the controller outdoors or anyway in places with water jets or environmental conditions without adequate protection.
- The use in explosive, aggressive atmosphere or with high concentration of powders or oily substances suspended in the air is prohibited. Electrical devices produce arcs or sparks that can cause a fire or explosion.
- Do not operate controller at unusual extreme of ambient temperatures above +40°C or below -10°C.
- In general, use of the controller with materials, adjustments or modifications not envisaged in this document, is prohibited.
- It is prohibited to tamper with the controller in order to modify its performances.



- Use of the controller is prohibited to unauthorised operators, who are not adequately trained in use of the controller and the associated dangers.
- Use of the controller outside the limits indicated in this document is expressly prohibited.

### **1.3 Replacement policy**

The controller has been checked and performance verified by LITEC Italia S.p.A. or one of its authorised service agents before shipping.

If the correctly maintained controller should present a performance problem due to faulty material or workmanship, after inspection by LITEC Italia Spa or authorised agent, repairing or replacement of the unit will be made free of charge in favour of the original purchaser.

This repairing/replacement policy only applies to installed, under maintenance and operating controllers, as highlighted in this manual and does not include the parts subject to normal wear and tear, misuse, improper installation, inadequate and incorrect maintenance, the effects of hostile environments and unauthorised repairing/modifications.

The manufacturer and dealers cannot accept responsibility for any damage or lack of functionality due to the following situations:

- Carrying out inappropriate operations for a motor controller
- Product modification without the express authorization of the manufacturer
- Inappropriate operation of the controller
- Operational errors
- Failure to use the product as stated in the manual.

**LITEC ITALIA SPA DECLINES LIABILITY FOR ANY DAMAGES ARISING FROM A NON-COMPLIANT INSTALLATION AND MAINTENANCE INDICATED IN THIS DOCUMENT.**



## 2 FUNCTIONS AND CONTROL

### 2.1 Main functions

Motor Controller is designed to control up to 8 electrically compatible motors separately or simultaneously, controlled via GO button located on front panel.

Each device is equipped with MPA /Manual Phase Align/ module that allows changing the phases easily by rotating pins L2 and L3 on the main connector.

All electrical components carry their own individual CE and comply with European Directives. The components are housed in a robust steel 19" rack casing with powder coating. Unit complies with the CE according to the Certification of Conformity that is attached to this manual.

### 2.2 Water, moisture, heat and humidity

Do not operate this equipment near water, in areas with wet floors or in high humidity atmosphere where condensation forms on the equipment. It should never be placed near or over a heat register or other source of heated air and it should not be installed or operated without proper ventilation.



#### **WARNING !**

Do not operate this equipment in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.



### 3 OPERATION

The Motors/Hoists connected to the LT LDDBxx controller can be activated individually or simultaneously using the GO button located on the front panel. The selection of the hoists that are controlled is made by switches located on front panel.

#### 3.1 How to start

Follow the following instructions:

- Connect the CEE16/5p or CEE32A/5p plug to the AC400V power supply and check GFI and channel MCB + group stop.
- If there is 123 align, all outputs will work normally.
- If there is 132 align, the outputs will work reversely. In order to switch the align of phases to 123, rotate pins L2 and L3 on the main connector.
- Connect the plugs of the electric hoists to the sockets of the CEE16A/4p or CEE16A/5p /\*on request/
- Check if all emergency STOP buttons are released.

#### 3.2 To move a Single/Several Motor(s)

- Set the UP/DOWN switch for each motor to the desired direction.
- Hold the GO button until all motors are moved the desired height and release.



#### **WARNING !**

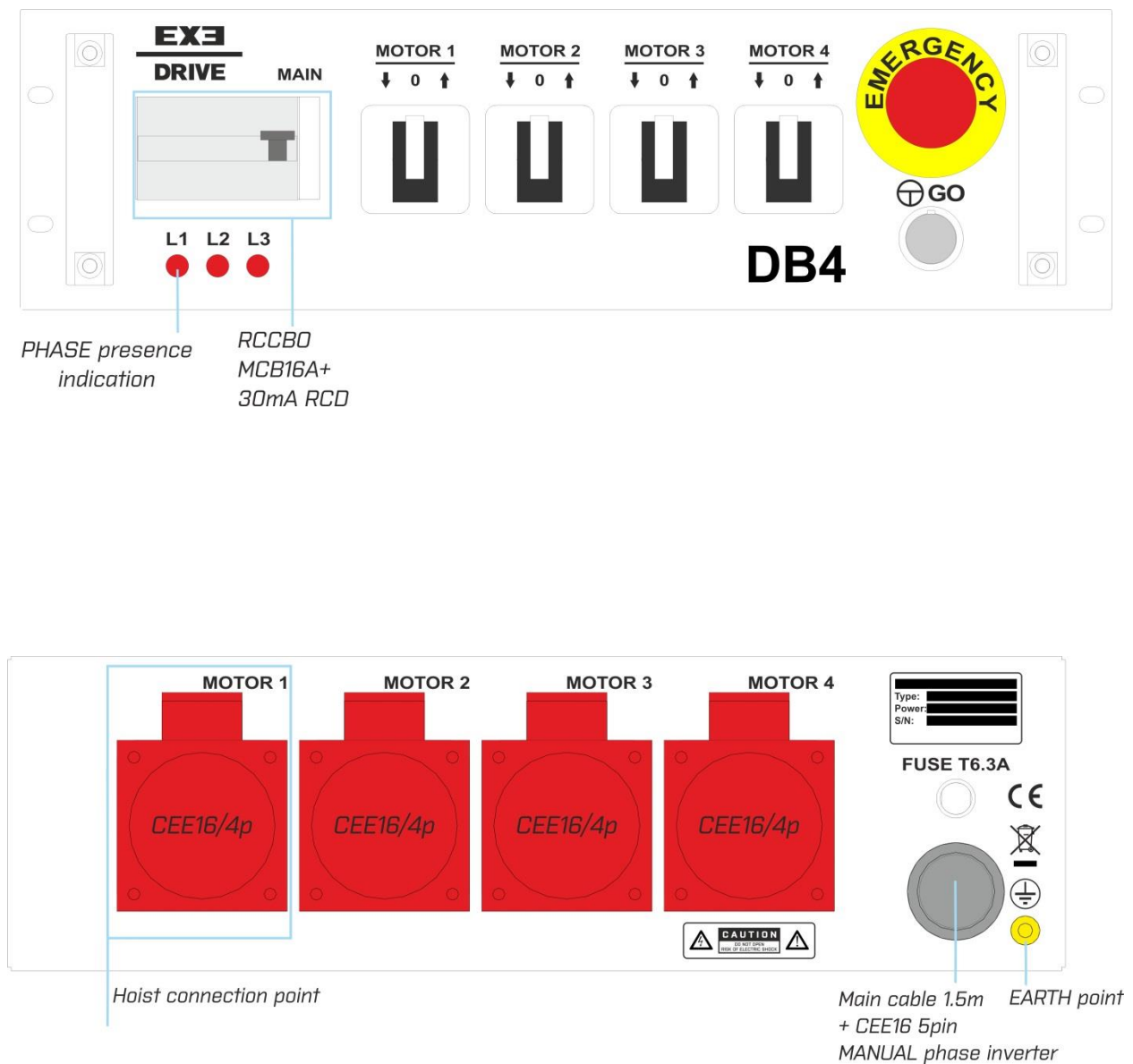
Use of the controller under conditions other than those described in this document, can result in accidents that may cause injuries and/or material damages.



## 4 LT LDDbxx MODELS

### 4.1 LT LDDb4

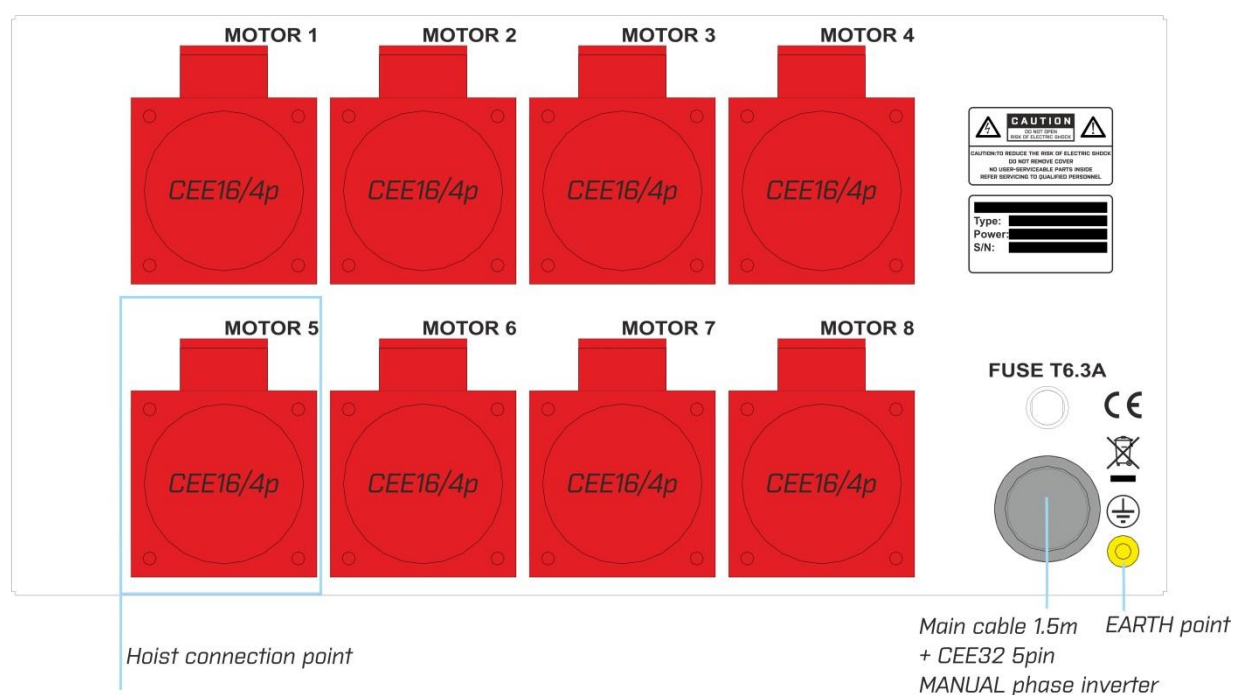
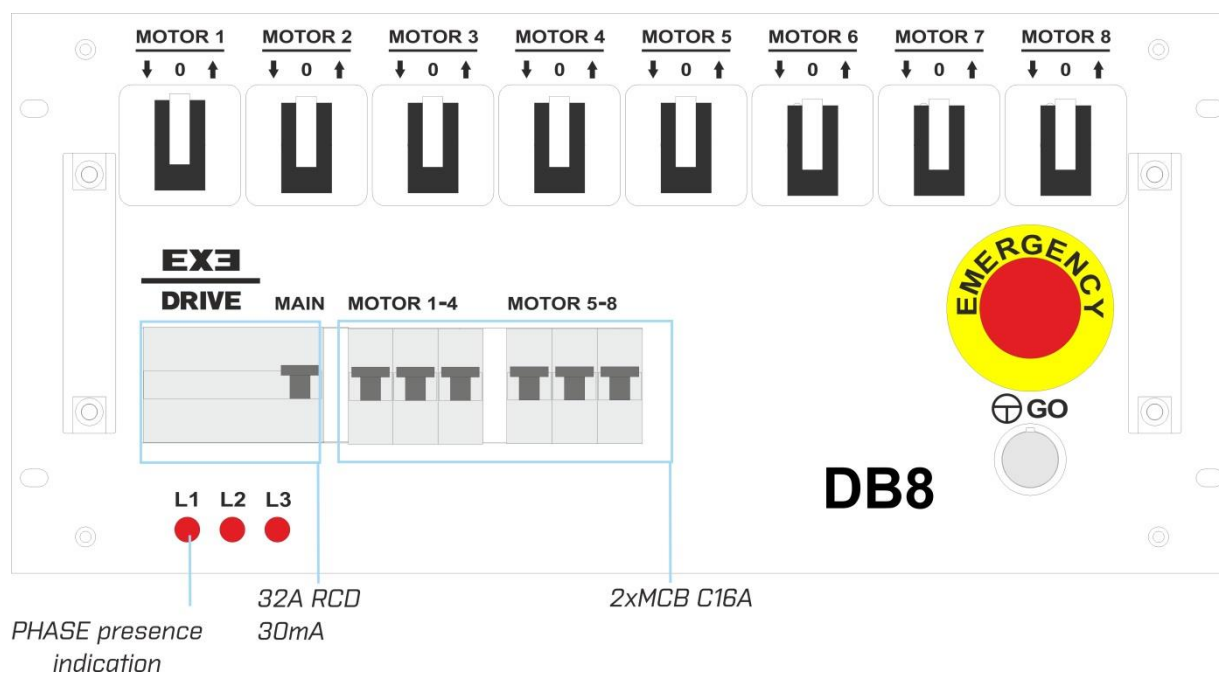
Figure 1: Front and back panel of LT LDDb4





## 4.2 LT LDDDB8

Figure 2: Front and back panel of LT LDDDB8



### 4.3 Control points description

#### **EMERGENCY STOP:**

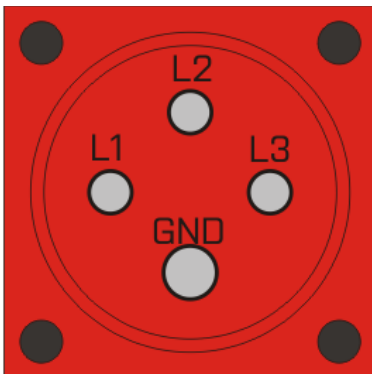
Emergency is a RED button located in the middle of yellow circle.  
Emergency stop button turns the LT LDDBxx controller to an inactive state and stays in it.  
To release it, rotate the emergency stop clockwise.

#### **GO:**

When active, the green pushbutton turns the selected channels of Hoist Control system ON.  
Once the GO button is released, the energizing of the hoists is turned off.

#### **CEE16/4P MOTOR/HOIST CONNECTOR**

To change the direction of movement, the rotation from 123 to 132 is required. In an inactive state, this connector is without power.



*Figure 3: Connector*

On request, unit can be equipped with CEE16/5p connector. In this case the NEUTRAL on output connector is not connected.



## 5 TECHNICAL DATA

- Mains input 400VAC +-20% 50/60Hz
- LT LDDDB4 mains Plug: CEE16A 5p
- LT LDDDB8 mains Plug: CEE16A 5p
- Motor Socket : CEE16A 4p

### 5.1 Protection and Safety:

- RCD 30mA outputs protected
- MCB C16A per group of 4 hoist as overcurrent protection
- MPA – Manual Phase Align
- Mains contactor

### 5.2 Metal Housing:

- 1.5mm Steel housing with gray powder coating
- 3mm Steel front panel

### 5.3 Dimensions /W x D x H/:

- LT LDDDB4      3U
- LT LDDDB8      5U



## **6 DEMOLITION AND DISPOSAL**

Before carrying out demolition and disposal of the controller, complete the working cycle and disconnect power.

Upon demolition, plastic parts must be separated from electric components and must be sent to selective collections according to regulations in force.

With regard to metal housing, for a correct forwarding to melting recycling, its splitting in aluminium parts and parts in other metals or alloys is sufficient.

During operations of disposal, the operator must wear gloves and protective overalls indicated in the product safety report.

## **7 WARRANTY**

The motor controller comes with a 24 month manufacturer's limited warranty from the date of purchase.

### **7.1 Warranty limitations, remedies and damages**

This warranty does not apply where normal wear, abuse, improper or inadequate maintenance, chemical or abrasive actions, excessive heat, or unauthorised modifications or repairs cause deterioration of the controller. This warranty does not apply to products which LITEC Italia has determined to have been misused or abused, connected to voltages other than those recommended, improperly maintained by the user, or where the malfunction or defect can be attributed to the use of non-genuine LITEC Italia parts.

This expressed warranty is in lieu of all other warranties, expressed or implied, of marketing, fitness for a particular purpose, or in any other manner, no promise or assertion of fact declared by any vendor's agent or representative shall constitute a vendor's warranty or shall determine any liability or obligation.

The vendor guarantees that at the delivery date to the forwarding agent the goods are free from defects in workmanship and materials. The sole obligation of possible breach of the warranty or contract for negligence or in any other manner concerning the goods sold, shall be exclusively limited to repair or replacement, f.o.b. vendor's shipping point of any part that the vendor determines to be faulty, or, should the vendor determine that such repair or replacement cannot be undertaken, to a reimbursement of the purchase price upon return of the goods to the vendor.

Any action against the vendor for breach of contract, negligence or others must be initiated within one year from the occurrence of such trial action.

No claim for damages to the vendor for any defects of the goods shall be deemed valid or applicable without the written notification of the purchaser if it is not received by the vendor within one year from the shipping date.

The vendor is not liable for any damage, injury or loss due to improper use of the goods if, before such damage, injury or loss, such goods are (1) damaged or used in an improper manner following the delivery of the vendor to the forwarding agent (2), not serviced, inspected or used in compliance with the applicable laws and vendor's written instructions and advices; or (3) installed, repaired, tampered or modified without compliance with such law, instructions or advices. Under no circumstance the vendor shall be liable for accidental or consequential damages since these terms are defined in section 2-715 of the uniform commercial code.



## **7.2 Compensation and use under safety**

The purchaser must follow and request his labour force to follow the provisions indicated in the instructions and manuals supplied by the vendor, and must use them and request his labour force to follow such instructions and manuals and take suitable care in the maintenance of such products. The purchaser must not remove, or allow anyone to remove, any warning plates or instructions on the product. In the event of personal injury or damages to property or the Company resulting from the use of the product, the Purchaser must give a written notification of such injury or damage to the vendor within 48 hours.

The Purchaser must cooperate with the Vendor in the inquiries on such injury or damage and in defence of any claim for damages.

If the Purchaser fails to follow this section or if the injuries or damages are caused, totally or partially, by the Purchaser's non-observance of the federal or state laws on safety, the Purchaser must indemnify and keep harmless the Vendor from any claim, loss or expense for injuries or damages connected to the use of the product.

## **7.3 Note**

The information contained in this publication is correct at the time of printing, but can be modified without prior notice or compulsory notification, when necessary, in compliance with the continuous improvement policy of the LITEC Italia Spa products.

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