

INSTALLATION MANUAL



PRODUCT TYPE:
CEILING LIFTS

MODEL:
BS ID

CONTENTS

04

WARRANTY TERMS AND CONDITIONS

06

ASSISTANCE

06

PRODUCT IDENTIFICATION DATA

07

DECLARATION OF INCORPORATION

08

INTRODUCTION TO THE MANUAL

09

WARNINGS

10

PACKAGING

11

DESCRIPTION OF PACKAGE CONTENTS

12

SYSTEM FEATURES

13

TECHNICAL TABLE

15

PERSONAL PROTECTIVE EQUIPMENT

16

SAFETY PLATES

17

RESIDUAL RISKS

18

INSTALLATION

- PAG. 19 - MOUNTING
- PAG. 20 - MOUNTING WITHOUT BRACKETS
- PAG. 20 - MOUNTING WITH BRACKETS
- PAG. 21 - TV ASSEMBLY
- PAG. 22 - CABLE ROUTING
- PAG. 23 - MOTION SEQUENCE DETAIL
- PAG. 24 - OPENING/CLOSING ADJUSTMENT
- PAG. 25 - MOTOR UNLOCKING PROCEDURE

26

ELECTRONIC COMPONENTS

26

LOGIC CONTROL

- PAG. 27 - POWER & BUTTON WIRING
- PAG. 27 - SWITCHING FROM MANUAL MODE TO AUTOMATIC MODE

28

CIRCUIT DIAGRAMS

29

INSPECTION COMPARTMENT

30

CLEANING AND MAINTENANCE

31

TROUBLESHOOTING

32

DEMOLITION AND DISPOSAL



WARRANTY TERMS AND CONDITIONS

Sea & Symphony guarantees the product against manufacturing defects for a period of 24 months from the date of purchase, provided it is not used for unintended purposes and that the installation, use, and maintenance instructions contained herein are followed.

Any repairs under warranty will be completed as quickly as possible, and the warranty is extended from the time of repair.

Any complaints must be forwarded to the seller/installer who sold the finished product and will then be forwarded to Sea & Symphony, referring to the serial number.

If the product is to be sent to Sea & Symphony for repair, it must be carefully packaged to avoid damage during transport.

Shipping is the responsibility of the sender.

The warranty does not cover the following cases:

- Damage resulting from improper use or maintenance of the mechanism;
- Repairs or modifications performed by unauthorized personnel;
- Normal wear and tear;
- Damage caused by the customer;
- Accidental damage caused by the customer, by negligence of the customer or the installer, or by natural events;
- Damage caused by equipment not supplied by SEA & SYMPHONY and connected to the mechanism by third parties;
- Installation, routine maintenance, extraordinary maintenance, or repairs performed by unauthorized and unqualified technical personnel;
- Modifications not authorized by SEA & SYMPHONY S.R.L.;
- Use of parts and/or equipment not supplied or approved by SEA & SYMPHONY S.R.L.;
- Removal or alteration of the identification sticker;
- Failure to follow installation and maintenance instructions, and modifications not authorized by SEA & SYMPHONY S.R.L.;
- Any other software used to control the mechanism;
- Any transfer of ownership. The warranty is valid only for the first purchaser;
- Compensation for loss of use of the product.

The manufacturer declines all direct and indirect liability arising from:

- Installation by unqualified personnel;
- Maintenance by unqualified personnel;
- Use of the product other than that specified in this manual;
- Use of components not supplied by SEA & SYMPHONY S.R.L.
- Use by personnel who have not read and fully understood the contents of the manual;
- Installation and use instructions that do not comply with specific regulations in force in the country of installation;
- Modifications made to the product unless authorized in writing by the manufacturer;
- Exceptional events;
- Unauthorized repairs;



NOTE

The manufacturer is not responsible for any damage, defects, or malfunctions resulting from improper installation of the product, performed without following the instructions and recommendations in the manual.

After the warranty period expires, we recommend scheduling a complete product inspection annually and before the start of the season.
Contact an authorized SEA&SYMPHONY service center.



DANGER

It is the installer's responsibility to carry out a risk assessment before carrying out the installation.



TECHNICAL ASSISTANCE

For any technical assistance, please contact the manufacturer directly, always citing the model and serial number, printed on the sticker on the product.



TECHNICAL ASSISTANCE

For any technical assistance, please contact the manufacturer directly, always citing the model and serial number, printed on the sticker on the product.

PRODUCT IDENTIFICATION DATA

The product identification data is shown on the white sticker located on the product frame. The nameplate specifies the model, serial number, and year of manufacture. The product sticker is shown below.



NOTE

Removing or tampering of the identification sticker automatically voids the warranty.

STATEMENT OF INCORPORATION

Below is a **sample** of the product's declaration of incorporation.

DECLARATION OF INCORPORATION FOR PARTLY COMPLETED MACHINERY

Machinery Directive 2006/42/EC, Annex II 1, B

The Manufacturer

SEA & SYMPHONY S.r.l.

Strada Carignano 46/2 - 10024 Moncalieri (TO) - Italia

Declares, under its sole responsibility, that the partly completed machinery identified below:

Designation: SISTEMA MOVIMENTAZIONE TV DA SOFFITTO

Model: BS TS ID DW

Serial number:

Year:

The following Essential Safety Requirements of the Machinery Directive (2006/42/EC) have been applied and fulfilled:

1.1.2 – 1.1.3 – 1.1.5 – 1.1.6 – 1.2.3 – 1.2.4.1 – 1.2.6 - 1.3.1 – 1.3.2 – 1.3.3 – 1.3.4 – 1.5.1 - 1.5.4 – 1.5.8 – 1.5.11 - 1.6.1 – 1.7.1 – 1.7.3 - 1.7.4

That the relevant technical documentation has been compiled in accordance with Part B of Annex VII; such documentation, or parts thereof, will be transmitted by post or electronically in response to a reasoned request by the competent national authorities.

That the partly completed machinery complies with the Low Voltage Directive 2014/35/EU.

The manufacturer further declares that the following harmonised standards have been applied:

EN ISO 12100: 2010 - EN ISO 20607: 2019

This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity, where applicable, with the provisions of the Machinery Directive 2006/42/EC.

The person authorised to compile the Technical Documentation is Mr. SIGNATORY NAME, at COMPANY NAME, COMPANY ADDRESS.

Place.....

Date.....

Signatory name

Role.....

Signature

.....



INTRODUCTION TO THE MANUAL

This manual is intended for use by qualified personnel and contains information on the installation and operation of the unit.

To ensure safe use of the unit, read this manual completely and give particular attention to the safety instructions and general warnings.

These instructions are an integral part of the product.

Keep these instructions available at all times.

To avoid risks and problems when using the unit, be sure to follow all information contained in the instructions.

SYMBOLS USED IN THE MANUAL

The following symbols are used in this Manual to indicate the presence of hazards and to draw the reader's attention to important information:



NOTE

In this area, the important notation to be highlighted is inserted.



DANGER

Indicates a reminder to follow safe practices or calls attention to unsafe practices that could cause personal injury or damage to the device, its components, or the environment.



WARNING

Indicates that a hazard exists that could cause injury or death if appropriate precautions are not taken.

WARNING

To prevent accidents, pay maximum attention to the following operations:

- The use and maintenance of the product is subject to the complete reading of this manual, particularly about the product safety information.
- Operate in strict compliance with the capacity and construction characteristics.
- Do not tamper with the safety guards under any circumstances.
- Periodically inspect the product for any wear or damaged parts.
- Do not use the product if any moving parts are worn.
- Entrust maintenance operations to specialized personnel with specific skills.
- For anything not expressly mentioned, always comply with the safety regulations in force.
- SEA&SYMPHONY Srl declines all responsibility for damage to persons or property resulting from failure to comply with the safety regulations.
- Use must not be permitted to persons under 16 years of age or to anyone unaware of the dangers inherent in the careless use of this equipment.
- During opening/closing operations, it is forbidden to stand or pass through the movement area.
- Never activate the device when there are people within its range of action.
- Always announce the opening/closing of the device in advance when people are present in the area.
- Always open/close the device while maintaining visual contact with them.



PACKAGING

The packaging must be intact upon receipt, meaning:

- it must not show any signs of impact or breakage;
- it must not show any signs that suggest it has been exposed to heat, frost, water, etc.;
- it must not show any signs of tampering.

Any deformations indicate impacts during transport, which could compromise the normal functioning of the product.

The device and its accessories, and more generally the entire supply, must be in perfect condition.

The supply is subjected to a thorough inspection procedure before shipping; however, it is always advisable to check that the supply is complete and in good condition upon receipt.

MAKE SURE THAT:

- The shipping information (recipient's address, number of packages, order number, etc.) corresponds to the information contained in the accompanying documentation.
- The technical-legal documentation supplied with the product includes the manual corresponding to the type of device.

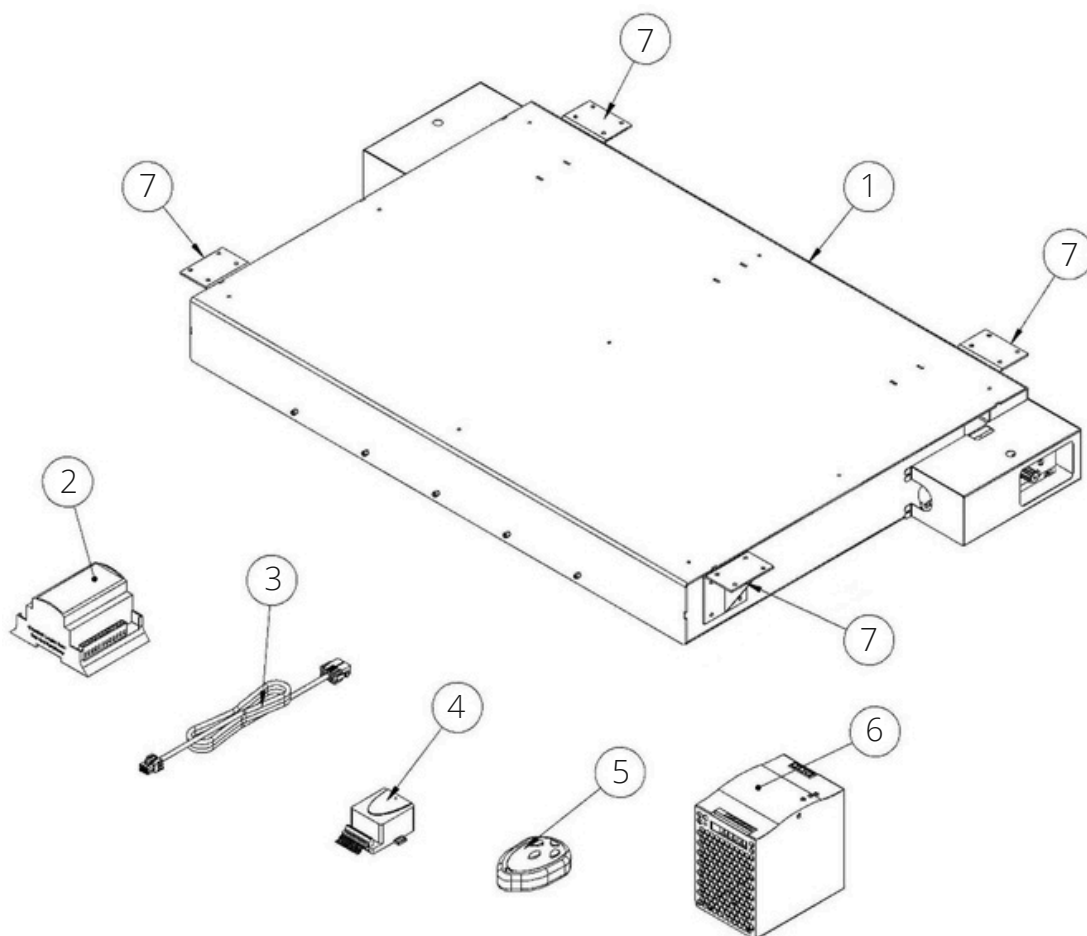
CONTENT DESCRIPTION

The package contains the following items:

1. Ceiling TV system
2. Control unit
3. Extension wiring

Optional:

4. Receiving
5. Radio control
6. Power supply
7. Ceiling mounting brackets



SYSTEM FEATURES

The product is available in various models, depending on the size of the TV to be installed and the housing/frame in which it is mounted (standard tilting ceiling-mounted TV system for screens from 30" to 75" and custom-made systems for screens over 75").

Each model has different overall dimensions, weight capacity, and maximum TV size.

The table on the following page lists all the models and their respective specifications.

FIGURE 1

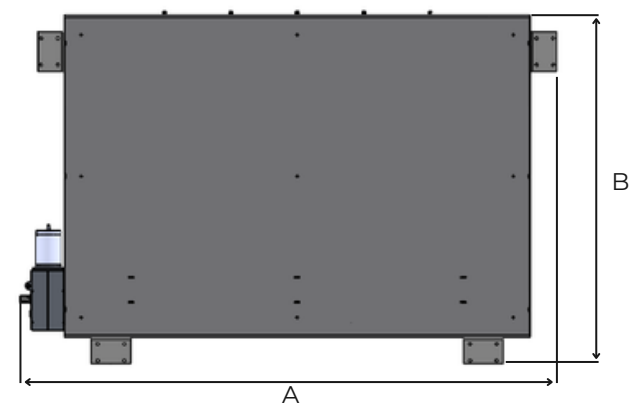
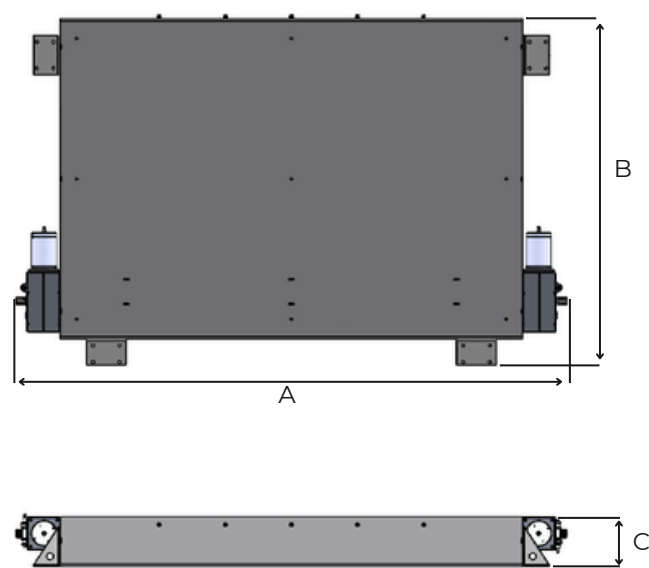


FIGURE 2



LEGEND

A=WIDTH (mm)

B=HEIGHT(mm)

C=DEPHT (mm)



NOTE

Figure 1 refers to models with 1 motor (7042 BS ID).

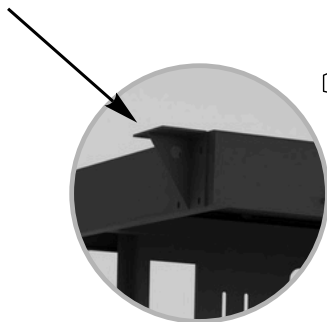
Figure 2 refers to models with 2 motors (7055 BS ID – 7065 BS ID – 7075 BS ID).



TECHNICAL DATA SHEET

MODELLO MODEL	DESCRIZIONE DESCRIPTION	LARGHEZZA WIDTH	ALTEZZA HEIGHT	PROFONDITA' DEPTH	PESO WEIGHT	PORTATA LIFTING	UTILE TV TV SIZE
7042 BS ID	Staffa a cielino Ceiling Mount	1250	775	120	45 KG	35 KG	Max 42"
7055 BS ID	Staffa a cielino Ceiling Mount	1700	969+80**	150	60 KG	50 KG	Max 55"
7065 BS ID	Staffa a cielino Ceiling Mount	2010	1100+80**	155	75 KG	65 KG	Max 65"
7075 BS ID	Staffa a cielino Ceiling Mount	2290	1250+80**	155	95 KG	75 KG	Max 75"

*tutte le misure presenti in tabella sono indicative ed espresse in mm| All dimensions shown are approximate and expressed in mm.

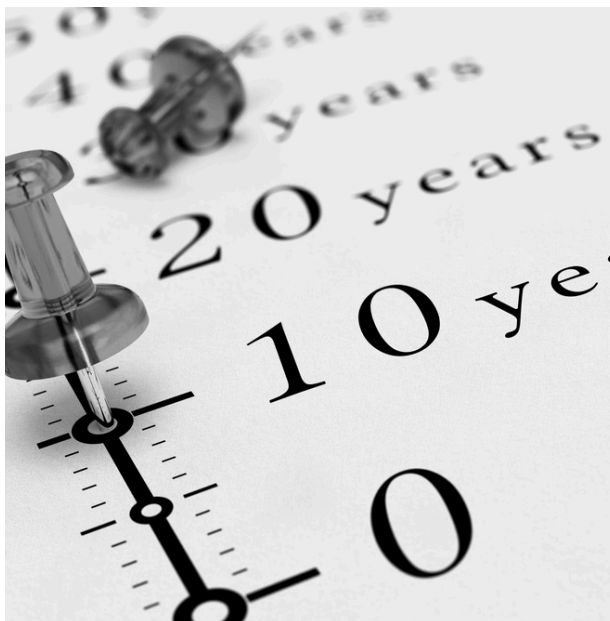


 ** From item 7055 onwards, the mechanism includes fixing brackets.



 The 7055 BS ID and 7065 BS ID are also available in a 120 mm deep version.

OPERATIONAL LIMITS



TIME LIMITS

The product's lifespan is indefinite if the preventive maintenance guidelines outlined in this manual are followed and repairs are performed when necessary. It is recommended that maintenance be performed only by experienced and qualified personnel.

ENVIRONMENTAL LIMITS

The product is designed to operate in environments with temperatures between 10°C and 40°C.

The product can be stored at temperatures between 10°C and 40°C. Do not store the product outdoors. If storing for long periods and/or in environmental conditions beyond the specified limits, appropriate precautions must be taken by contacting Sea&Symphony technical support.





PERSONAL PROTECTIVE EQUIPMENT

Personnel responsible for product installation and maintenance are required to use personal protective equipment (PPE):



PROTECTIVE GLOVES



SAFETY FOOTWEAR



SAFETY HELMET

The user is required to ensure that the PPE complies with EC Directive 2016/425 and applicable technical standards.



DANGER

Failure to comply with PPE requirements may expose the operator to serious health damage or death.



SAFETY PLATES

Danger warning pictograms have been applied to the device to draw the user's attention to the presence of risks that cannot be avoided or sufficiently limited by measures, methods, or systems of work organization or by technical means of protection.



DANGER

Warning pictograms placed on the product perform an important safety function.

When seeing these pictograms, the user is required to adopt correct behavior.



NOTE

Removing warning pictograms that serve a safety function is prohibited.

Failure to comply with this rule will void the warranty and result in the user's full liability.

The user is required to maintain the pictograms in good condition and to replace them if they are accidentally removed or damaged.

RESIDUAL RISKS



DANGER OF MOVING PARTS

Do not touch the mechanism with your hands or other parts of your body and not introduce foreign objects into the moving mechanism.

Keep children away from the components of this mechanism to avoid injury and/or property damage. Since this mechanism can be operated with a remote control (radio control), ensure that it is always stored in a protected place and out of the reach of children. Do not allow children to be encouraged to use the mechanism for fun, which could pose serious risks.



DANGER

Never exceed the maximum load capacity of the mechanism (50 kg, including the finishing panel).

This could cause injury or property damage.

It is the installer's responsibility to ensure that the total weight of all components connected to the mechanism does not exceed the maximum load capacity.



DANGER OF MOVING PARTS

A suitable housing for the mechanism must be available before beginning installation. Failure to provide such a housing could cause injury to people and/or property. It is the installer's responsibility to ensure that the structure to which the mechanism will be attached can support a weight equal to four times that of the mechanism and its various components.



DANGER OF ELECTRICITY

Before any installation, adjustment or maintenance operation, isolate the energy sources.



INSTALLATION



DANGER

During installation give maximum attention during the lifting and handling phases of the device.



NOTE

During installation must be provided an inspection compartments to allow access for any maintenance in the period after assembly (See page 29).



DANGER

It's important to choose the most appropriate model based on the location where the device is installed; install the device on a cabinet/container, so as to protect users from inadvertent contact with moving parts, and so that the moving parts do not create further hazards by interacting with surrounding objects.



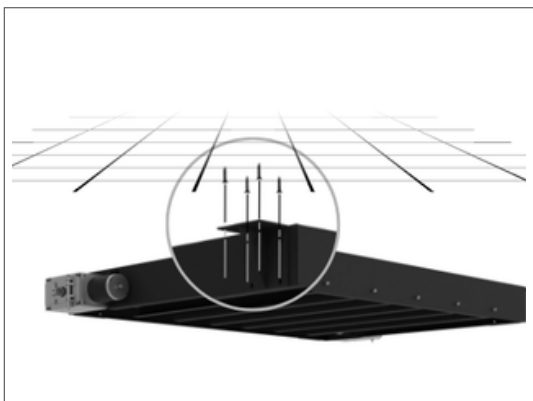
NOTE

The installation of control devices is free, dependent only on the operating wiring.

ASSEMBLY



For correct assembly, please follow the instructions on the following pages to prevent mechanical interference.



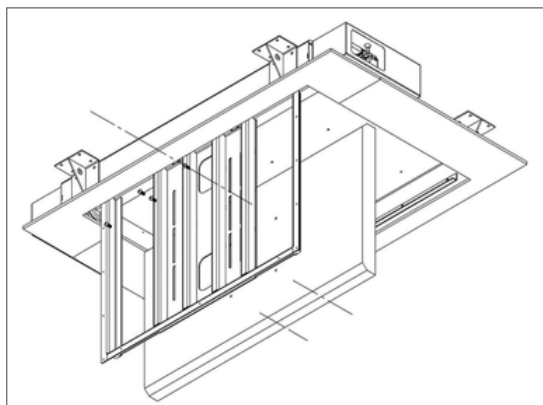
SECURING THE MECHANISM TO THE CEILING

Secure the mechanism to the ceiling/structure in accordance with the instructions provided on the following pages.

(See page 20 for further details).

CONNECT THE ELECTRONICS

Connect the control unit and the mechanism's power supply so that it can be moved and positioned correctly for the remaining stages of assembly.



CABLE ROUTING

Route the power cables as shown in the illustration.

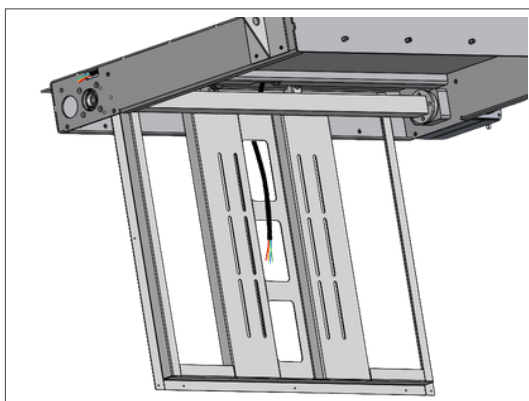
(See page 22 for further details).



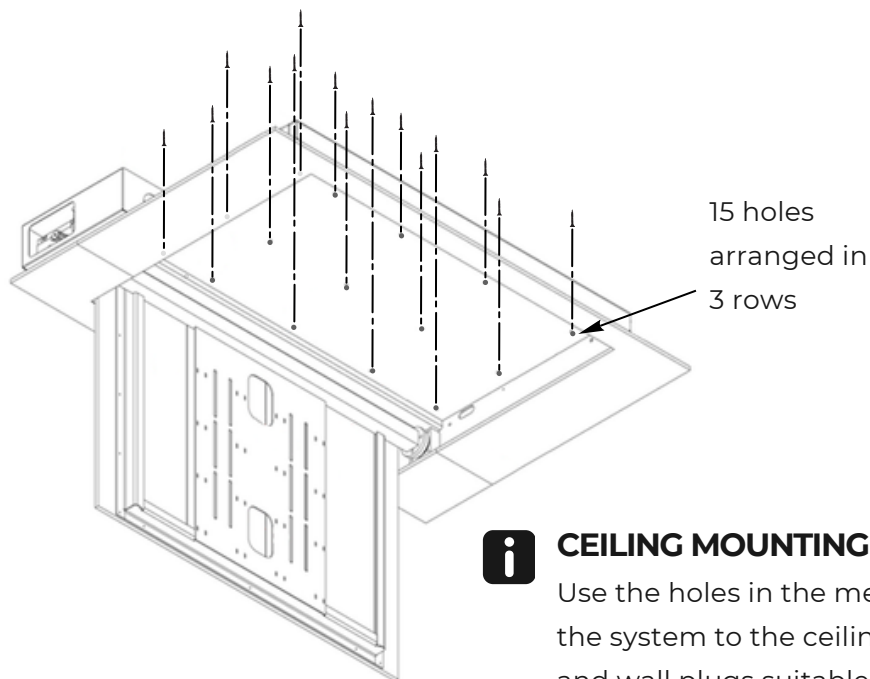
TV INSTALLATION

Secure the television to the supplied bracket as shown in the illustration.

(See page 21 for further details).



MOUNTING WITHOUT BRACKETS



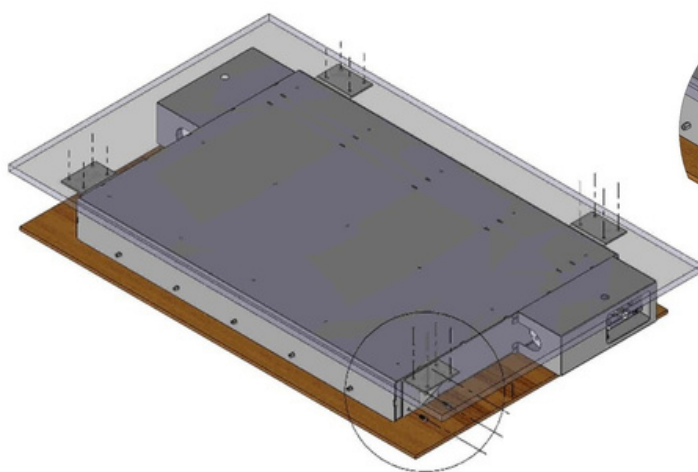
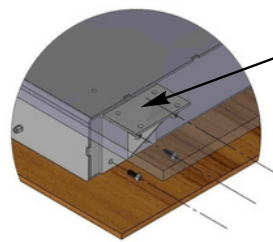
CEILING MOUNTING

Use the holes in the mechanism to securely anchor the system to the ceiling or structure. Use screws and wall plugs suitable for the holes.



This type of 'direct' ceiling mounting is provided for the 7042 BS model. However, if desired, the mounting brackets provided for the larger models, as shown on the following page, can also be used for this model.

MOUNTING WITH BRACKETS



From item 7055 BS ID onwards, these mechanisms are fitted with special mounting brackets for fixing to the ceiling or structure.



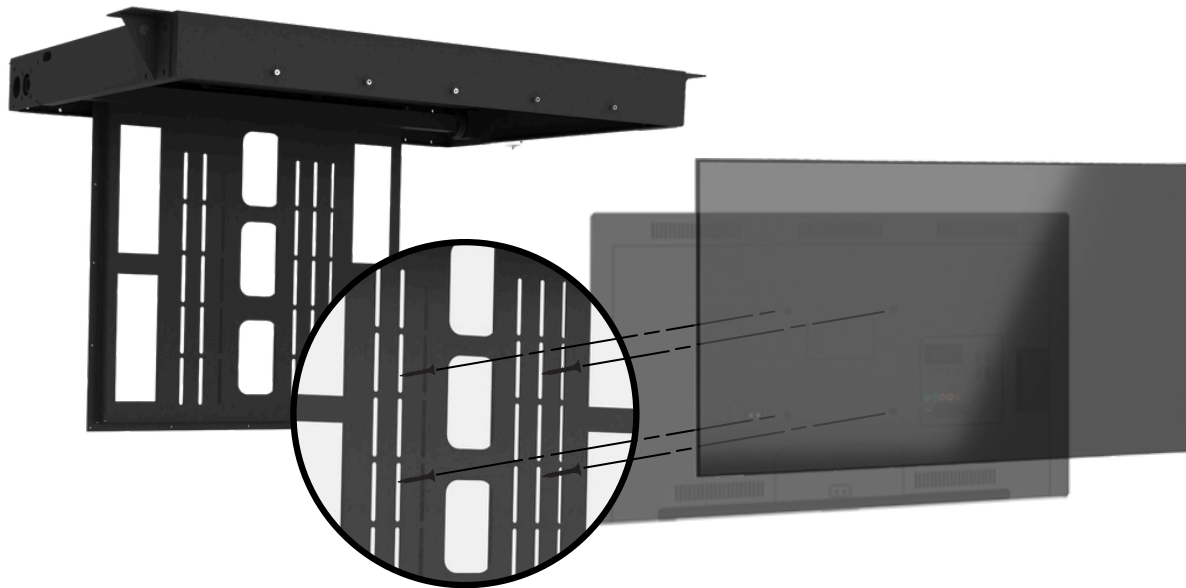
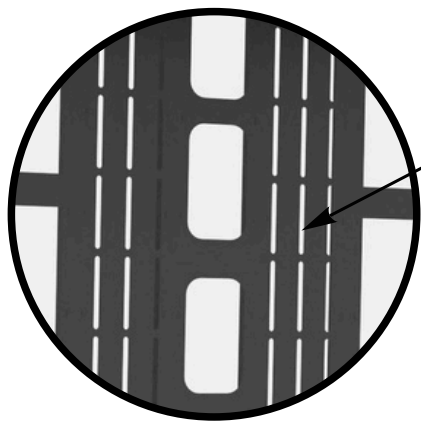
CEILING MOUNTING

Use the brackets supplied with the mechanism to secure the system firmly to the ceiling or structure. We recommend using screws and wall plugs suitable for the holes.

TV ASSEMBLY

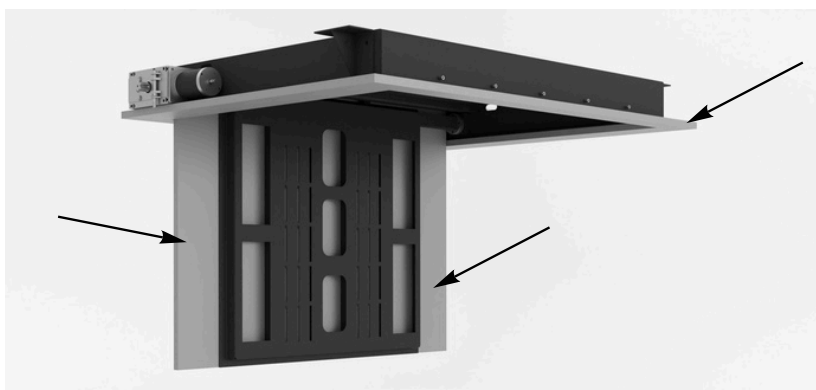


Secure the television to the bracket using the appropriate screws and connect the cables to the TV (see next page).



VESA COMPATIBILITY

The bracket has a series of slots that make it compatible with all VESA mounts on standard TVs.



FINISHING PANELS

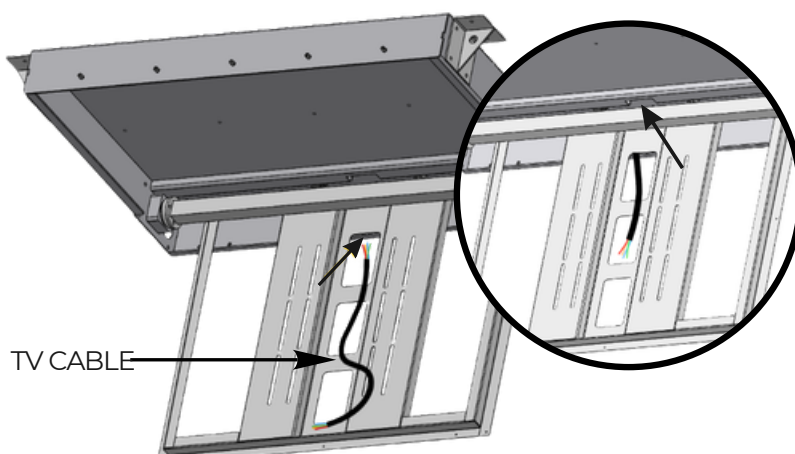
To be supplied by the customer.
Sea&Symphony supplies the mechanism only.

CABLE ROUTING

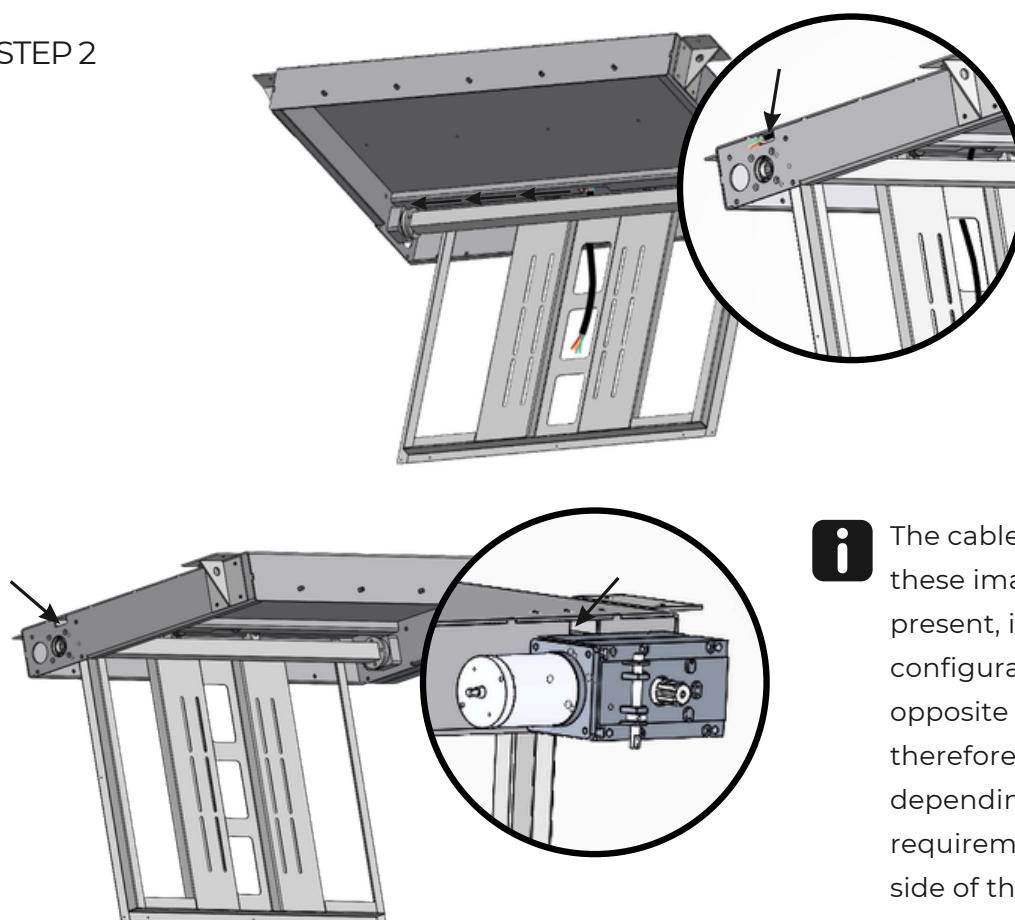


The above is a suggestion; other solutions may be used provided they do not interfere with the proper functioning of the system. Ensure that the cables are not crushed by the various components of the mechanism during operation.

STEP 1



STEP 2



The cable outlet shown in these images is also present, in a mirror-image configuration, on the opposite side. You can therefore choose, depending on your requirements, from which side of the mechanism to route the cables.



The model shown in the images is the 7042 BS IS, but the instructions for cable routing are the same for all models.

MOTION SEQUENCE DETAIL



CLOSED

The image shows the system in the OFF position, i.e. when the TV is concealed in the ceiling.



TV OPENING

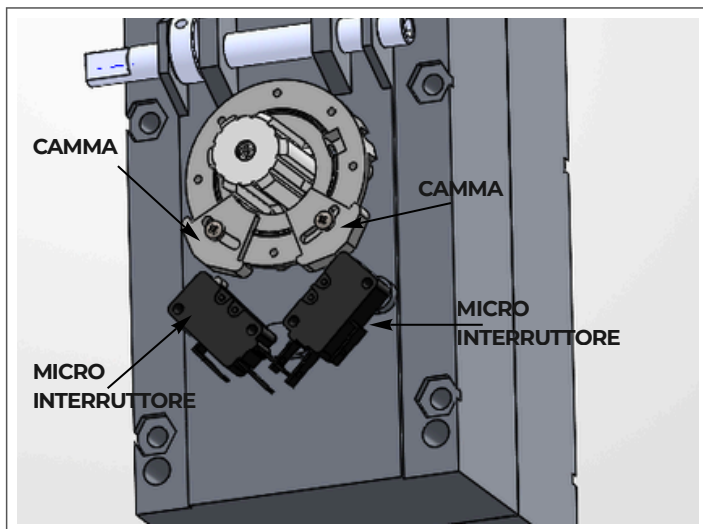
The image shows the system in motion; the TV is out of the ceiling but not yet in position.



FINAL POSITION

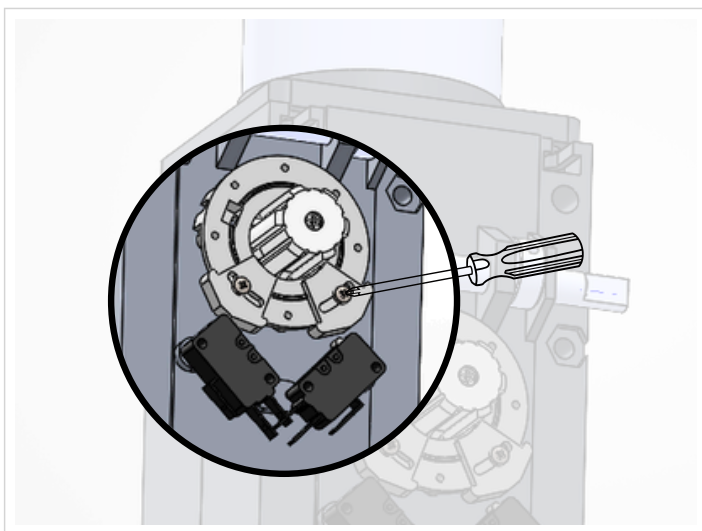
The image shows the system once the movement is complete; the TV is in its final position.

ADJUSTMENT CLOSING/OPENING



By adjusting the cams on the motor, it is possible to make adjustments to achieve opening/closing that is flush with the ceiling/structure in which the system is installed.

To identify the cam that controls **CLOSURE**, refer to the one near the microswitch with the **RED/PURPLE** wires, while for **OPENING**, refer to the one near the microswitch with the **RED/ORANGE** wires.

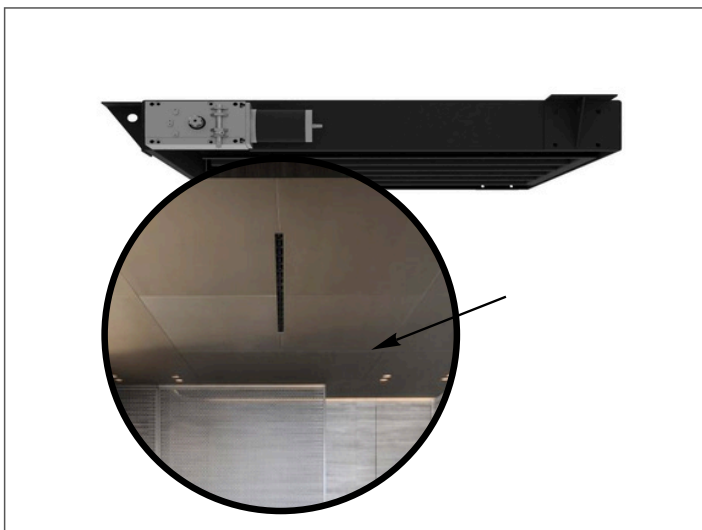


REGULATION

Loosen the cam screw slightly and move it until the desired opening/closing position is achieved, then tighten the screw.

Perform the procedure on both cams.

Repeat the operation until the system achieves optimal closing/opening.



CORRECT REGISTRATION

Opened/closed of the mechanism can be considered to have correctly when the system aligns perfectly with the ceiling/structure in which it is installed.

(see image at right).

MOTOR UNLOCKING PROCEDURE

In the event of a fault, it may be necessary to use the motor unlocking procedure to intervene on the mechanism and proceed with the repair.



BEFORE PERFORMING THIS OPERATION, IT IS ESSENTIAL TO CONTACT A TRUSTED TECHNICIAN OR A SEA & SYMPHONY TECHNICIAN.



DANGER

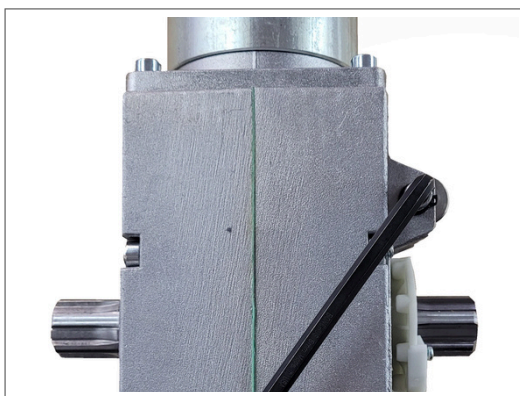
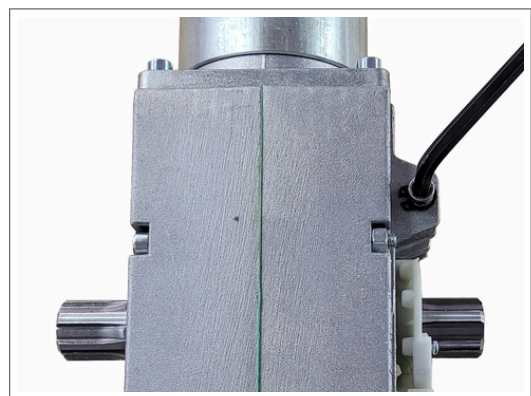
WHEN THE MOTORS ARE RELEASED, THE MECHANISM OPENS UNCONTROLLABLY AND **FALLS FREELY**. TO AVOID SERIOUS INJURY OR PROPERTY DAMAGE, EXTREME CAUTION IS REQUIRED DURING THIS OPERATION.

DO NOT STAND UNDERNEATH THE SYSTEM, BUT RATHER STAND TO THE SIDE AND SUPPORT IT MANUALLY UNTIL IT IS FULLY OPEN.



PROCEDURE

Use a 6mm Allen key and rotate until the motor unlocks (see images below).



ONCE THE REPAIR HAS BEEN CARRIED OUT, FOLLOW THE PROCEDURE IN REVERSE ORDER TO RESTORE THE MECHANISM TO FULL WORKING ORDER.

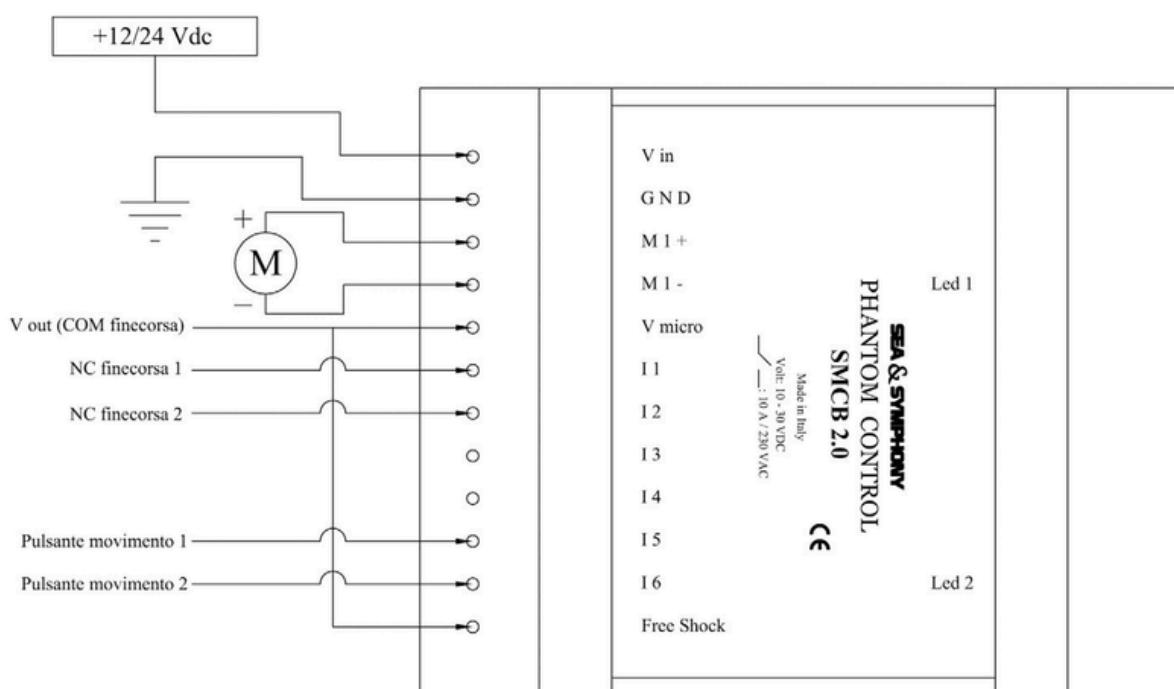
ELECTRONIC COMPONENTS

CONTROL UNIT



The Phantom Control Logic Box (control unit) 7212/24 SMCB can be powered by either 12 or 24 V DC and features two different-sized plastic connectors to prevent incorrect connections by the user.

The eight-pin connector must be connected directly to the device connector. The ten-pin connector must be connected to the power/button wiring



DANGER

The device operates at low voltage (12/24 V DC). The manufacturer therefore declines all liability for damage resulting from connections that do not comply with these voltage levels or with the standards and legislation in force in the country of installation.

POWER AND BUTTON WIRING

The wiring consists of a plastic connector with 5 wires, each with a specific function:

- RED 1 mmq: positive (12/24V DC)
- BLACK 1 mmq: negative
- RED 0.5 mmq: common button terminal
- WHITE 0.5 mmq: up contact
- GREY 0.5 mmq: down contact



NOTE

The installation must ensure that the DC power disconnect switch (in the case of a system supplied without a power supply unit) or the 230V AC power disconnect plug (in the case of a system supplied with a power supply unit) is easily accessible.

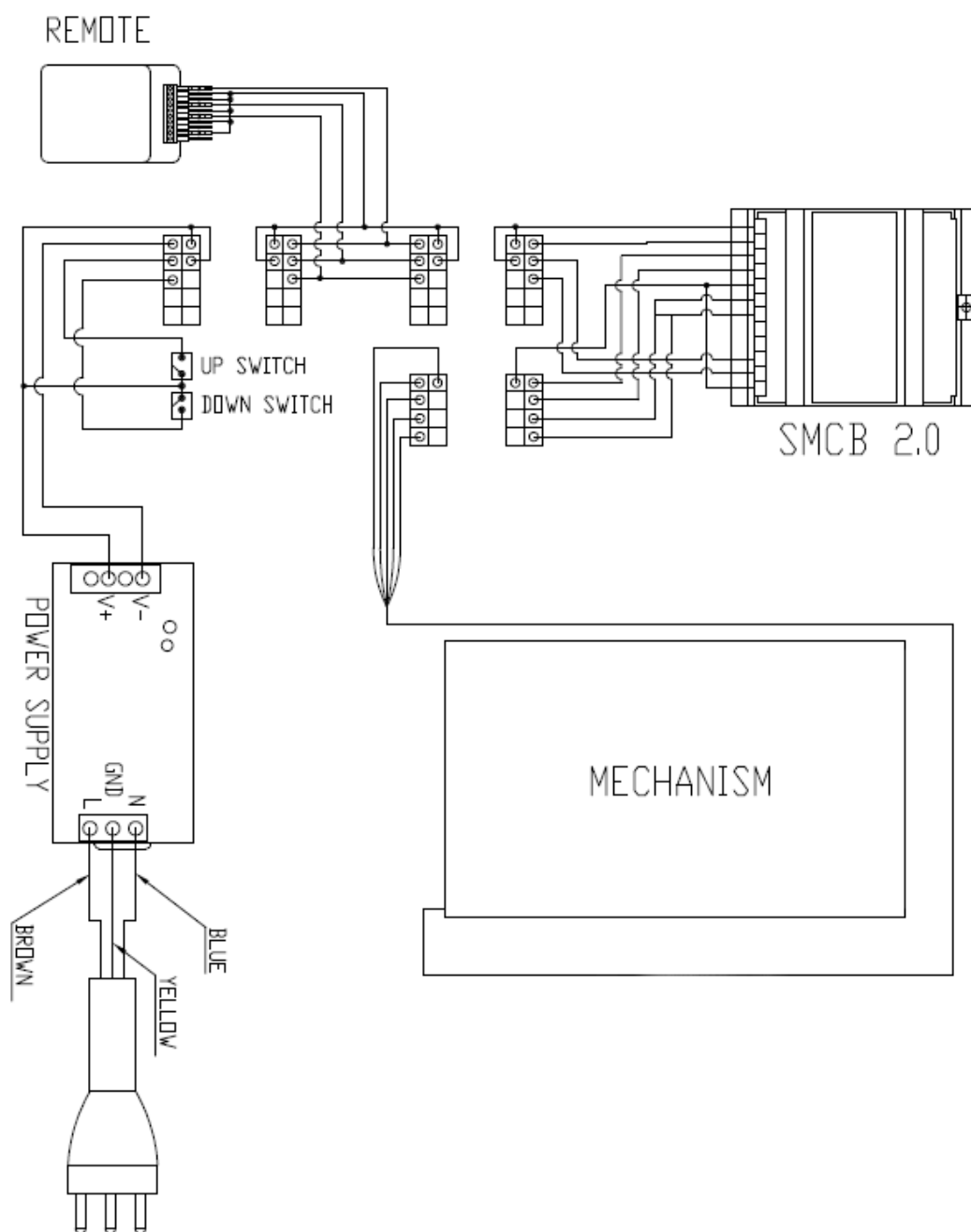
SWITCH FROM MANUAL MODE TO AUTOMATIC MODE

Phantom Control can be used with two different modalities:

- **MANUAL MODE** (Human presence): the movement takes place only by holding down the open/close button; if the button is released, the PHANTOM mechanism will stop its stroke.
- **AUTOMATIC MODE**: the movement starts by briefly pressing one of the two buttons and ends by pressing it again, or when the mechanism comes to press the limit switch.

To switch from one mode to another, it is necessary to keep the common button, the up contact and the down contact together for at least 5-6 seconds.

CIRCUIT DIAGRAMS



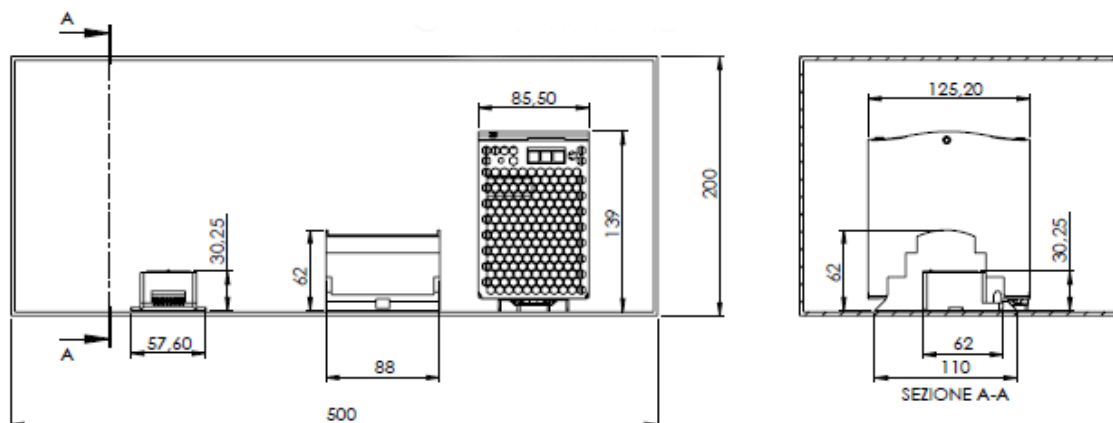
DANGER

The device operates at low voltage (12/24 V DC), therefore the manufacturer declines all responsibility for damage resulting from connections that do not comply with these voltages or do not comply with the standards and legislation in force in the country in which it is installed.

INSPECTION COMPARTMENT



During installation, inspection compartments must be provided to allow access for any maintenance in the period after assembly.



THE DIMENSIONS REFER TO THE EMPTY SPACE TO BE LEFT FOR INSPECTION OF ELECTRICAL COMPONENTS, NOT TO A PHYSICAL BOX.



IT IS RECOMMENDED TO INSTALL THE REMOTE CONTROL RECEIVER AS FAR AS POSSIBLE FROM THE POWER SUPPLY AND OTHER ELECTRONIC EQUIPMENT THAT COULD CAUSE ELECTROMAGNETIC INTERFERENCE.



CLEANING AND MAINTENANCE



DANGER OF ELECTRICITY

Isolare le fonti di energia prima di effettuare operazioni di pulizia e/o manutenzione.



DANGER

Cleaning and maintenance operations must be carried out by qualified and properly equipped personnel.

CLEANING

To clean surfaces treated with finishing processes (painting, anodizing, etc.), do not use abrasive or solvent-based products. Preferably use household cleaning products or soap and water.



WARNING

Do not use liquids containing solvents or abrasives to clean the mechanism.



WARNING

During cleaning, do not touch the electrical and electronic connections/ components.

ROUTINE MAINTENANCE

- Keep the device away from dusty areas (such as shavings or similar debris).
- Clean the device after installation to prevent dust or dirt from compromising its operation.
- Periodically clean the mechanism and the surrounding area.

EXTRAORDINARY MAINTENANCE

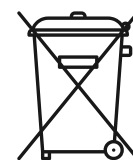
- Apply lubricant (e.g. grease) to the moving parts (bevel gears / pinions on rack) to ensure correct long-term operation.

TROUBLESHOOTING

MALFUNCTION	PROBABLE CAUSE	ACTION
The mechanism does not operate	No power supply	Make sure the power supply unit is connected to the mains and that the power LED is on. Check that the power LED on the control unit is lit.
	Incorrect electrical connection	Check the electrical connections according to the wiring diagram. Contact a Sea & Symphony technician.
	Loss of continuity in the wiring. Faulty remote control / flat battery. Faulty power supply unit. Faulty control unit. Protection triggered by the control unit.	Check whether the red LED light on the remote control appears weak; if so, replace the battery. In all other cases, contact a Sea & Symphony technician.
The mechanism operates intermittently	Inadequate power supply unit. Radio frequency interference.	Replace the power supply unit. Move the remote control receiver as far as possible from the power supply unit.
The mechanism moves in one direction only	Probable disconnection of a limit switch wire. Broken limit switch. Loss of continuity in the wiring.	Check that no wires are disconnected. Contact a Sea & Symphony technician.
The motor runs but the mechanism does not move	Possible disconnection of the transmission. The motors may be unlocked (see page 26).	Contact a Sea & Symphony technician.



DISPOSAL AND DEMOLITION



Pursuant to Article 13 of Legislative Decree No. 151 of 25 July 2005, implementing Directives 2002/95/EC, 2002/96/EC and 2003/108/EC on the reduction of hazardous substances in electrical and electronic equipment and the disposal of waste, and Legislative Decree No. 188 of 20 November 2008, implementing Directive 2006/66/EC on batteries, accumulators and their waste, which repeals Directive 91/157/EEC: the crossed-out bin symbol shown on the equipment or packaging indicates that the product must be collected separately from other waste at the end of its useful life.

The user must therefore dispose of the equipment or its exhausted components at the end of their life at an appropriate electronic and electrotechnical waste collection centre, or return it to the retailer when purchasing a new equivalent product, on a one-for-one basis.

Proper separate collection for the subsequent recycling, treatment and environmentally compatible disposal of decommissioned equipment helps to avoid potential negative effects on the environment and health, and promotes the reuse and/or recycling of the materials of which the equipment is composed.

Unlawful disposal of the product by the user will result in the application of administrative penalties provided for by current regulations, relieving the seller and manufacturer of all liability.



Telefono: +39.011.6056755

E-mail: info@seaandsymphony.com

www.seaandsymphony.com