HOMELINE
IMPROVING COMFORT



CBH Advanced systems
User manual

LINAK
WE IMPROVE YOUR LIFE

LINAK.COM/HOMELINE

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Preface

We are delighted that you have chosen a product from LINAK®.

LINAK systems are high-tech products based on many years of experience in the manufacture and development of actuators, electric control boxes, controls and chargers.

This User Manual does not address the end-user. It is intended as a source of information for the manufacturer of the equipment or system only, and it will tell you how to install, use and maintain your LINAK electronics. It is the responsibility of the manufacturer of the end-use product to provide a User Manual where relevant safety information from this manual is passed on to the end-user.

We are sure that your LINAK product/system will give you many years of problem-free operation.

Before our products leave the factory they undergo full function and quality testing. Should you nevertheless experience problems with your LINAK product/system, you are always welcome to contact your local dealer.

LINAK subsidiaries and some distributors situated all over the world have authorised service centres, which are always ready to help you.

LINAK provides a warranty on all its products. This warranty, however, is subject to correct use in accordance with the specifications, maintenance being done correctly and any repairs being carried out at a service centre, which is authorised to repair LINAK products.

Changes in installation and use of LINAK products/systems can affect their operation and durability. The products are not to be opened by unauthorised personnel.

The User Manual has been written based on our present technical knowledge. We are constantly working on updating the information and we therefore reserve the right to carry out technical modifications.

LINAK A/S

Valid for:

This User Manual is valid for the following products:

(See the first 3 - 5 characters on the label)

Actuators:	LA27, LA31 and LA40
Control box:	CBH1220A and CBH1300A
Power supply:	SMPS001, SMPS002 or SMPS006
Controls:	HB20, HC05 Wireless, HC10 Wireless, HC20 Wireless, HC30 Wireless
Accessories:	BA001, Lightplug001, LED Lightbox001, DC Connector001, USB Connector001, MD1000D2, LEDLightRail001, Bluetooth® Adapter

Important information

Important information on LINAK® products can be found under the following headings:

Warning!
Failure to comply with these instructions may result in accidents involving serious personal injury.

Failing to follow these instructions can result in the product being damaged or being destroyed.

Safety instruction

General

Safe use of the system is possible only when the operating instructions are read completely and the instructions contained are strictly observed.

Failure to comply with instructions marked with the "NOTE" symbol may result in serious damage to the system or one of its components.

It is important for everyone who is to connect, install, or use the systems to have the necessary information and access to this User Manual. Follow the instructions for mounting – risk of injury if these instructions are not followed.

The appliance is not intended for use by young children or infirm persons without supervision.

If there is visible damage on the product it must not be installed.

Note that during construction of applications, in which the actuator is to be fitted, there must be no possibility of personal injury, for example the squeezing of fingers or arms.

Only the power supply type SMPS001, SMPS002 or SMPS006, shall be used with the system (CBH Advanced System).
The power supply shall not be covered while operating to allow sufficient cooling of this appliance.

...to be continued

Furthermore take care about the connecting wires from the power supply to the CBH Advanced System, don't damage this by overrun.



Assure free space for movement of application in both directions to avoid blockade.



The appliance is only to be used with the power supply unit provided with the appliance.

Safety issues



The builder of the equipment shall ensure that the use of the component complies with relevant standards – like the Machine Directive. Care must be taken to avoid squeezing of cables as it can cause movement of the system!



The SMPS001/002/006 must not be packed in heat insulating material, but must be placed so that it can emit waste heat to the surroundings. There are no ventilation holes to consider, the SMPS emits heat through its surface.



Only the power supply type SMPS001, SMPS002 or SMPS006, shall be used with the system (CBH Advanced System).



Please observe that the actuators LA27 used for CBH Advanced systems are with Hall sensor and are not compatible with CBH Basic systems



Please observe that if you use the SMPS001 or SMPS002 the CBH Advanced must be configured first as the CBH Advanced is standard set to 29V DC. This is done via the CBH configurator. BA001 will not be charged



It is possible only to use 1 power supply (SMPS001, SMPS002 or SMPS006) for 2 CBH systems. Remember speed may decrease when running 2 systems at the same time.

Before installation, re-installation, or troubleshooting:

- Stop the actuators
- Pull out the mains plug.
- Relieve the actuators of any loads, which may be released during the work.

Before start-up:

- Make sure that the system has been installed as instructed in this User Manual.
- Make sure that the voltage of the control box/SMPS is correct before the system is connected to the mains.
- System connection. The individual parts must be connected before the control box /SMPS is connected to the mains. See the User Manual for LINAK actuators, if necessary.

During operation

- If the control box makes unusual noise or smells, switch off the mains voltage immediately.
- Take care that the cables are not damaged.
- The products must only be used in an environment, that corresponds to their IP protection.

Misc.

The actuator system has a sound level below 70dB(A) in typical applications.

Updated manuals and declarations can always be found here:
www.linak.com/homeline

Only for EU markets



This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.



Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Only for Non EU markets



Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical, sensory or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.



Moreover, children must be under surveillance to ensure that they do not play with the product.

Misuse



Do not overload the actuators – this can cause danger of personal injury and damage to the system.



Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.



Do not use the system in environments other than the intended indoor use

Repairs

In order to avoid the risk of malfunction, all HOMELINE® repairs must only be carried out by authorised LINAK® workshops or repairers, as special tools must be used and special gaskets must be fitted. Lifting units under warranty must also be returned to authorised LINAK workshops.

Warning!
If any of the HOMELINE® products are opened, there will be a risk of subsequent malfunction.

Warning!
The HOMELINE® systems are not resistant to cutting oil.

DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

Herewith declares that LINAK HOMELINE® products as characterized by the following models and types:

Control Boxes	CB7, CB9H, CBH Advanced, CBH Basic
And	
Linear Actuators	LA27, LA27CS, LA28, LA29, LA31 HOMELINE
Dual Actuators	TD1, TD3
And	
Controls	HB10, HB10RF, HB20, HB20RF, HB40, HB60, HC10, HC10RF, HC20RF,
And	
Accessories	DC CONNECTOR, DJBH, LED Lightbox, Lightplug001, Massage Motor, SMPS001, SMPS002, SMPS006, TR6, USB Connector

comply with the following parts of the Machinery Directive 2006/42/EC, ANNEX I, *Essential health and safety requirements relating to the design and construction of machinery*:

1.5.1 Electricity supply

The relevant technical documentation is compiled in accordance with part B of Annex VII and that this documentation or part hereof will be transmitted by post or electronically to a reasoned request by the national authorities.

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 with the provisions of the Machinery Directive 2006/42/EC where appropriate.

Nordborg, 2014-10-09



LINAK A/S
John Kling, B.Sc.E.E.
Certification and Regulatory Affairs
Authorized to compile the relevant technical documentation

Original Declaration

Misc. on the HOMELINE® system

Warranty
There is a 36 months' warranty on the HOMELINE products CBH Advanced Systems against manufacturing faults from the production date of the individual products (see label). LINAK A/S' warranty is only valid in so far as the equipment has been used and maintained correctly and has not been tampered with. Furthermore, the system must not be exposed to violent treatment. In the event of this, the warranty will be ineffective/invalid. For further details, please see LINAK A/S' ordinary conditions of sale.

Maintenance
Clean dust and dirt on the outside of the system at appropriate intervals and inspect for damage and breaks.
Inspect the connections, cables, and plugs and check for correct functioning as well as fixing points.



The cleaners and disinfectants must not be highly alkaline or acidic (pH value 6-8).

ETL-marking

Due to space limitations, the complete ETL-marking demands are not represented on the marking plates.

The full ETL Recognized Component markings are shown here.



C/N 120690
Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States



C/N 9901916
Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States



C/N 4008003
Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States



C/N 4008005
Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States



C/N 4008671
Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States



C/N 4009507
Conforms to UL962
Cert. to CSA Std. No. 68-09
ETL Recognized Component mark for Canada and United States

Description of the HOMELINE® CBH Advanced system

A typically CBH Advanced system consists of:

- CBH Advanced control box
- SMPS001, SMPS002 or SMPS006 power supply
- LA27, LA31 or LA40 linear actuator
- HC05/HC10, HC20 or HC30 Wireless handset
- 2 Massage motors
- Lightplug or LED Light Rail

Mounting guidelines for the CBH

The control box is to be fastened with 2 screws with a head diameter between ø 8 and ø 10 mm. With regard to the surface pressure, ø 10 mm is preferable. See drawing for placing of mounting holes and the space the CBH takes up.

The mounting surface to which the control box is attached should have a surface evenness better than ± 0.5 mm.

The mounting screws on the control box must be fastened with a max. torque of 1 Nm.

The CBH must not be packed in heat insulating material, but must be placed so that it can emit waste heat to the surroundings. There are no ventilation holes to consider, the CBH emits heat through its surface.

The electric connection:

The system is to be connected as follows:

- Each linear actuator must be connected to the socket on the control box by means of the motor cable, which has a 6-pin plug in each end.
- Connect any accessory
- Connect the SMPS unit to the CBH via a DC port and switch on the mains.
- Finally set up the wireless handset to the CBH, by pressing the small set-up button on the CBH, keeping it down while pressing a random button on the handset

Please note that the control box/SMPS must only be connected to the voltage stated on the labels.

The LA27 actuator is a powerful actuator designed for applications such as leisure beds.

Mechanical spline:

The splines function so that the actuator can only push, not pull. During pull in the actuator, the inner tube is lifted off the thread bush, and the actuator can therefore never pull a load, only push.

Functional test of mechanical splines:

When the piston rod is at the innermost position, it must be possible to pull it out manually to its full travel length and to press it in again without much resistance and without using the motor. If this is not possible, contact your nearest LINAK dealer.

Usage:

- Duty cycle: 2/18; 2 minutes continuous use followed by 18 minutes not in use
- Ambient temperature: +5°C to +40°C (the actuator must also be at this temp.)

Warning!

- If the actuator does not work as described above, the risk of injury due to squeezing can arise. The actuator must therefore immediately be sent for service at the nearest, authorised LINAK workshop.
- Do only use the actuator within specified working limits.
- Do not sideload the actuator

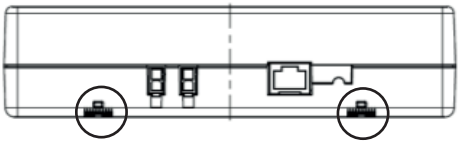
Initialisation

Start-up/initialisation of the LA27, LA31 and LA40:

After connection of the actuator, the system has to be initialised. Push the down button for the actuator that has to be initialised. When the sound from the LA27 stops, the system has been initialised. If more than 1 actuator is connected, the same has to be done with the other channels.

If an actuator is replaced or a new connected, you must wait 10-15 sec and then perform a new initialisation.

Cable relief:
The CBH features a cable relief option. By using these small holes on the CBH, you can tie the DC cables from the SMPS unit to the control box by use of standard cable ties. It is recommended to use the cable relief especially if the control box is exposed to movement.



The circles illustrate the small holes on the control box where a standard cable tie can be mounted and the DC cable from the SMPS/Handset cable can be fixed.



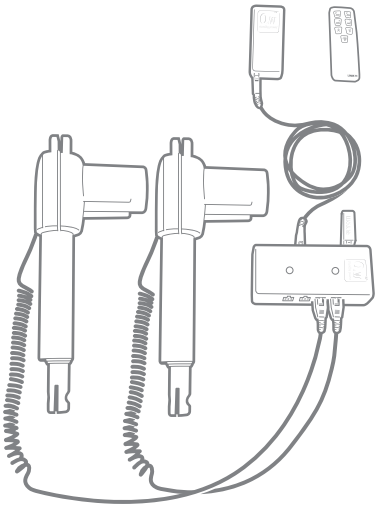
The extra cable tie length is just cut off when the cables have been fixed.

The CBH is a ZERO™ control box
A hallmark of the CBH ZERO platform is the very low power consumption in standby mode, saving energy and money.
The low standby consumption is standard..

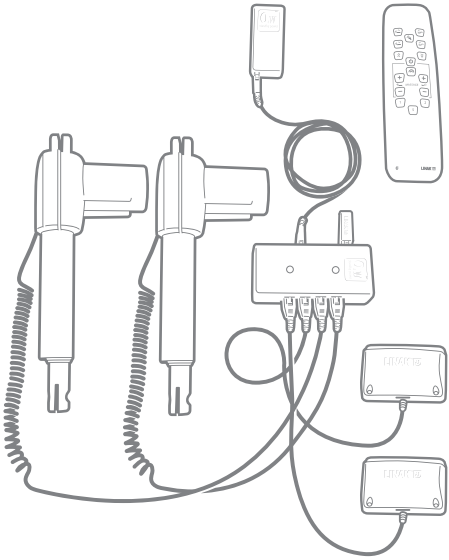


System overviews

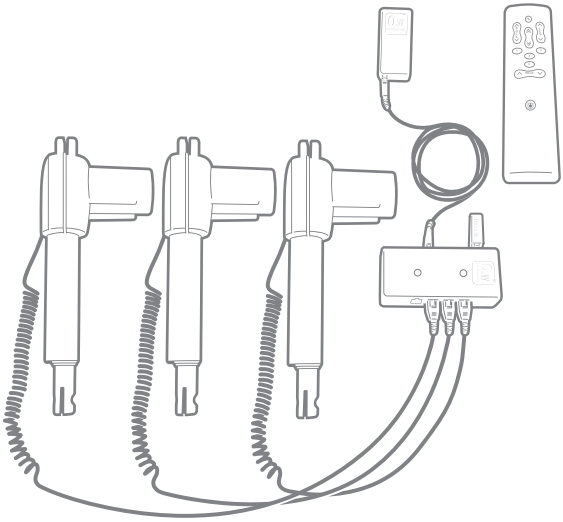
Back/leg adjustment system
A typical single actuator system for two adjustments consists of 1 x CBH Advanced (2 + 2 channels), 2 x LA27 / 31 / 40, 1 x SMPS and a simple hand control (A Bluetooth® hand control requires a Bluetooth® Adapter plugged into the CBH)



Back/leg+massage adjustment system
A typical single actuator system for two adjustments and massage consists of 1 x CBH Advanced (2 + 2 channels), 2 x LA27 / 31 / 40, 2 x massage motors, 1 x SMPS and an advanced hand control (A Bluetooth® hand control requires a Bluetooth® Adapter plugged into the CBH)



Back/leg+neck/foot/hi-lo adjustment system
A typical single actuator system for three adjustments consists of 1 x CBH Advanced (3 channels), 3 x LA27 / 31 / 40, 1 x SMPS and a hand control (A Bluetooth® hand control requires a Bluetooth® Adapter plugged into the CBH)

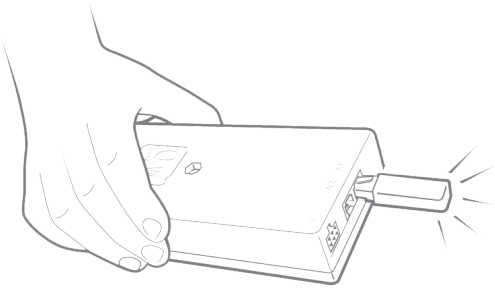


How to pair the Bluetooth® Adapter and the Bed Control App

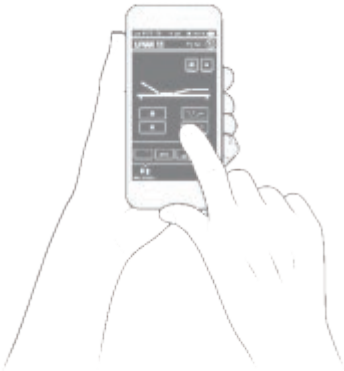
Plug the Bluetooth Adapter into a powered CBH.



The pairing mode will last 3 minutes and is indicated with a blue flashing LED light that is visible through the transparent plastic. (It can take up to 10 seconds before pairing mode starts).



Download the Bed Control App in App Store or Google Play store and follow the instructions in the programs.



When searching; All devices will be called BLE2LIN followed by a 4-digit number.

How to pair the Bluetooth® Adapter and hand controls

You can pair a Bluetooth® hand control to the Bluetooth® Adapter plugged into the CBH Advanced.
Compatible hand controls are HC05BL, HC10BL, HC20BL, HC30BL and HB10BL.
Set the Bluetooth® Adapter in pairing mode by following the guide on the previous page. Take you hand control and press the two upper buttons at the same time. Now the light will give a long blink and indicate that the hand control and the Bluetooth® Adapter are paired up.



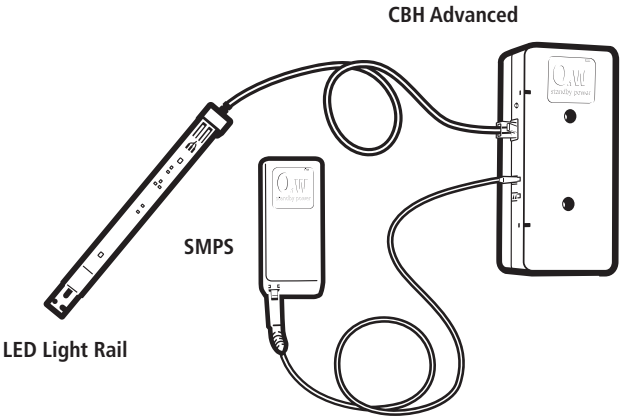
Hand controls with SW0077075 ver. 1.04 or newer supports dual pairing: Pairing one hand control to two CBH Advanced using Bluetooth® Adapters.

How to pair
1. Connect the two CBH with Bluetooth® Adapter to the mains at the same time
2. The Bluetooth® Adapter starts to blink to indicate pairing mode has started
3. Take the hand control and press the two upper buttons and both products are paired to the hand control

How to unpair one system
1. Disconnect both CBH with Bluetooth® Adapters from the mains
2. Connect the CBH, on which you want to keep the pairing, to the mains
3. The Bluetooth Adapter® starts to blink to indicate pairing mode has started
4. Take the hand control, press the two upper buttons and give a command to move the bed. Now the pairing between the hand control and the disconnected CBH will be deleted.

How to connect the LED Light Rail to the CBH

Simply connect the LED Light Rail to the CBH Advanced by using the RJ45 plug.



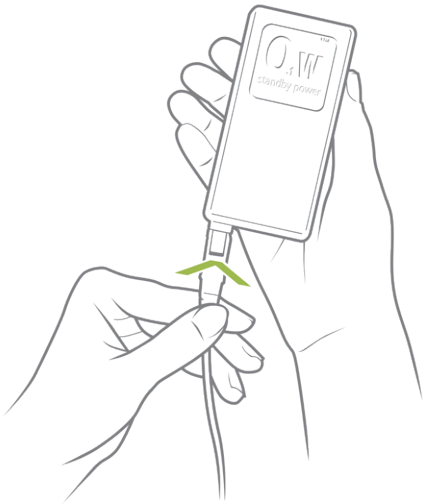
How to mount the locking device (0705889)

To ensure optimal cable relief on the SMPS001/002 a locking device (0705889) should be used. Follow the guide below on how to fix the locking device on the SMPS.

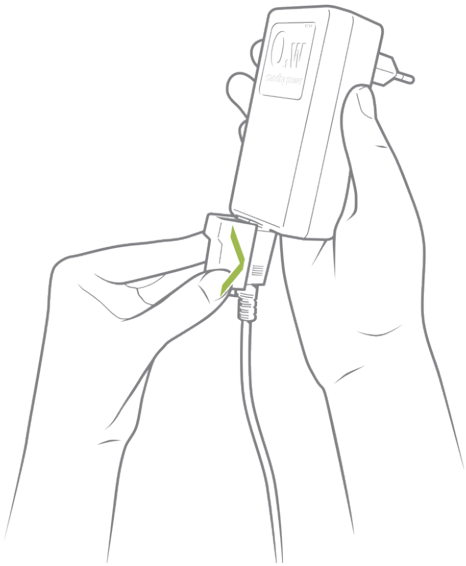
1. Take the SMPS



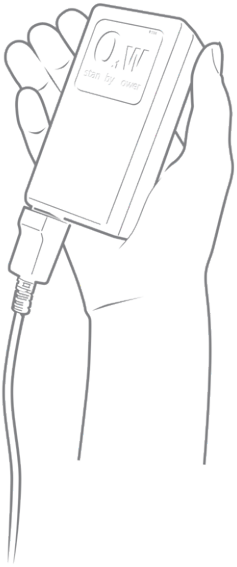
2. Plug the 2-poled DC cable in the SMPS



3. Slide the locking device on



4. The cable is now fully secured.



Disposal of LINAK's products

As LINAK's customers often ask us how our products can be disposed of or scrapped we have prepared this guidance that enables a classification to different waste fractions for recycling or combustion.

Guidance

We recommend that our products be disassembled as much as possible and divided into different waste groups for recycling or combustion.
For example, waste can be sorted into metals, plastics, cable scrap, combustible material and recoverable resources.
Some of these main groups can be further divided into subgroups; e.g. metal can be divided into steel/aluminium/copper and plastic can be divided into ABS/PA/PE/PP.
As an example, the table below breaks down the different components in LINAK products to various recycling groups:

Product	Components	Recycling group
Column/ Actuator :	Spindle and motor Plastic housing Cable PC boards	Metal scrap Plastic recycling or combustion Cable scrap or combustion Electronics scrap
Control Box :	PC boards Plastic housing Cable Transformer	Electronics scrap Plastic recycling or combustion Cable scrap or combustion Metal scrap
Handset/Control :	Plastic housing Cable PC boards	Plastic recycling or combustion Cable scrap or combustion Electronics scrap

By now, almost all our casted plastic parts are supplied with an interior code for plastic types and fibre contents, if any.

Main groups of disposal

Product main groups	Metal Scrap	Cable scrap	Electronics scrap	Plastic recycling or combustion	Comments
LA27	X	X	X	X	
CBH1200B			X	X	
SMPS001 / 002 / 006			X	X	
HB20, HC20		X	X	X	
Bluetooth® Adapter			X	X	
LED Light Rail		X	X	X	

Disposal of batteries

"Details regarding safe disposal of used and leaking batteries:
Batteries should be disposed in accordance with appropriate federal, state and local regulations. LINAK recommends that used or leaking batteries are disposed through local recycling system. Please do not throw used or leaking batteries in normal household waste or in nature. This will cause damage to the enviroment.

How to deal with leaking batteries

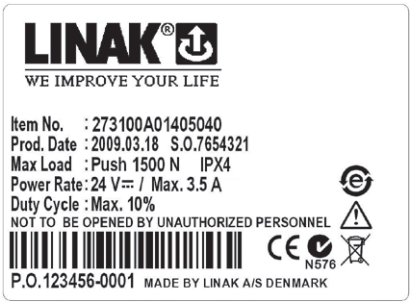
Leaking batteries should be disposed as described above.
If leaking batteries are discovered in the product, the batteries must be removed at once to minimise damage to the product. If leaking batteries are left in the product, it become defective.

It is recommended to use plastic gloves when handling leaking batteries. The contents of a leaking batteries can cause chemical burns and respiratory irritation.

If exposed to the contents of a leaking battery, please wash with soap and water. If irritation persists, please seek medical attention. In case of eye contact, please flush eyes thoroughly with water for 15 minutes and seek medical attention."

Labels

Label for LA27



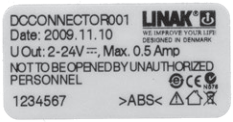
Label for HB22RF



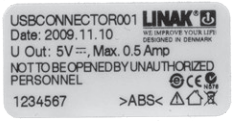
Label for HC20RF



Label for DC Connector



Label for USB Connector



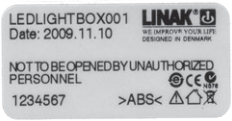
Label for CBH Basic



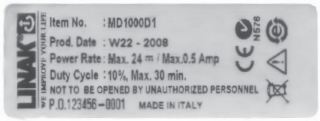
Label for LED Light Rail



Label for LED Lightbox



Label for Massage Motor



Label for SMPS001



Label for SMPS002

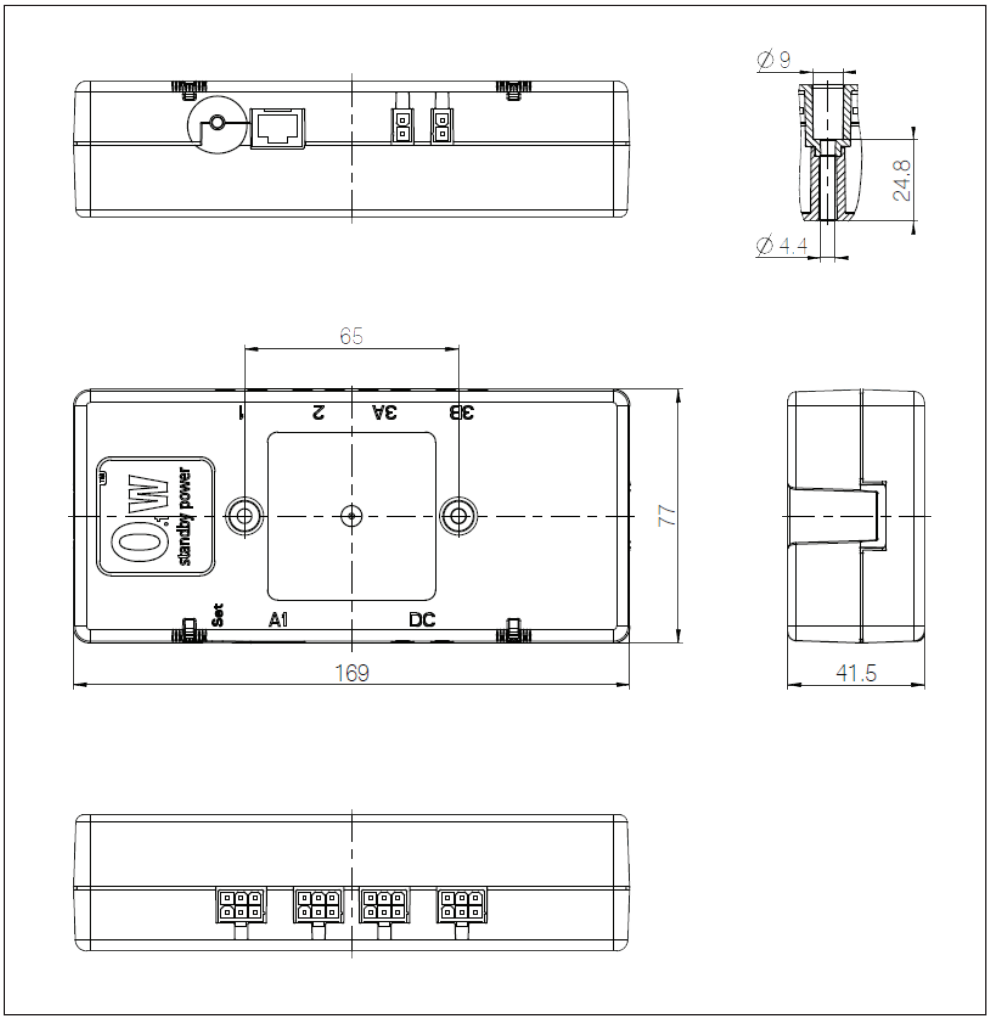


Label for SMPS006

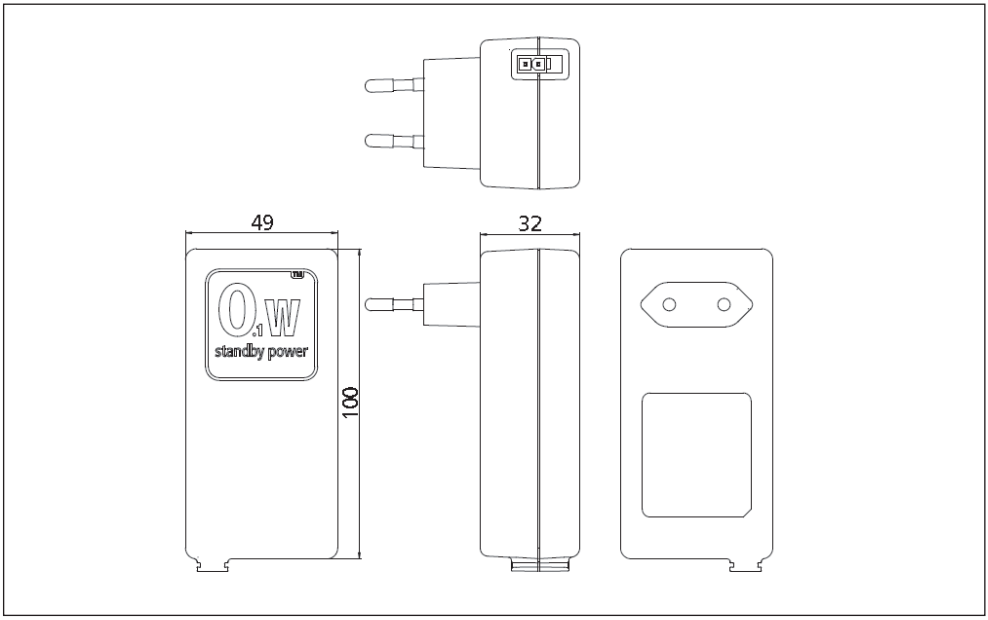


DRAWING APPENDIX

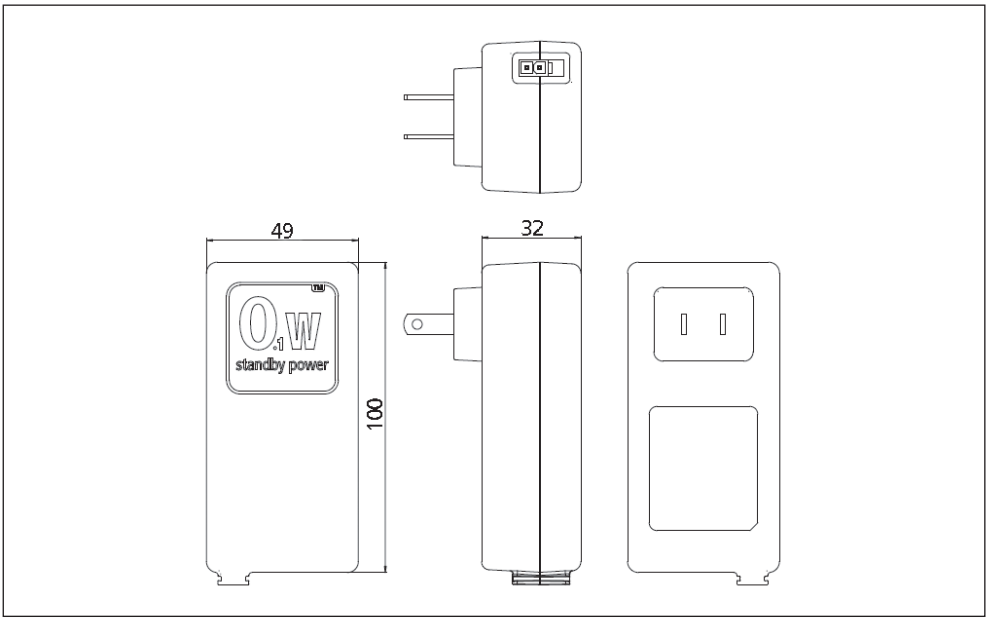
CBH Advanced

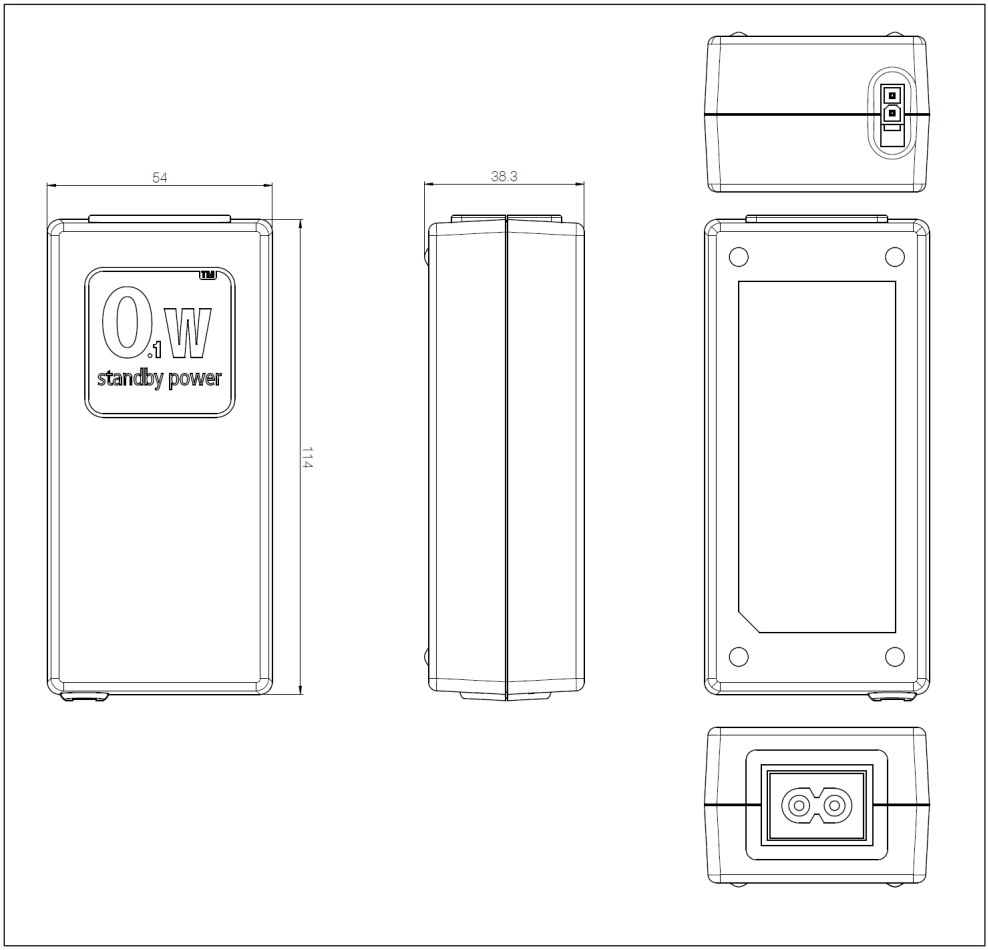


SMPS001

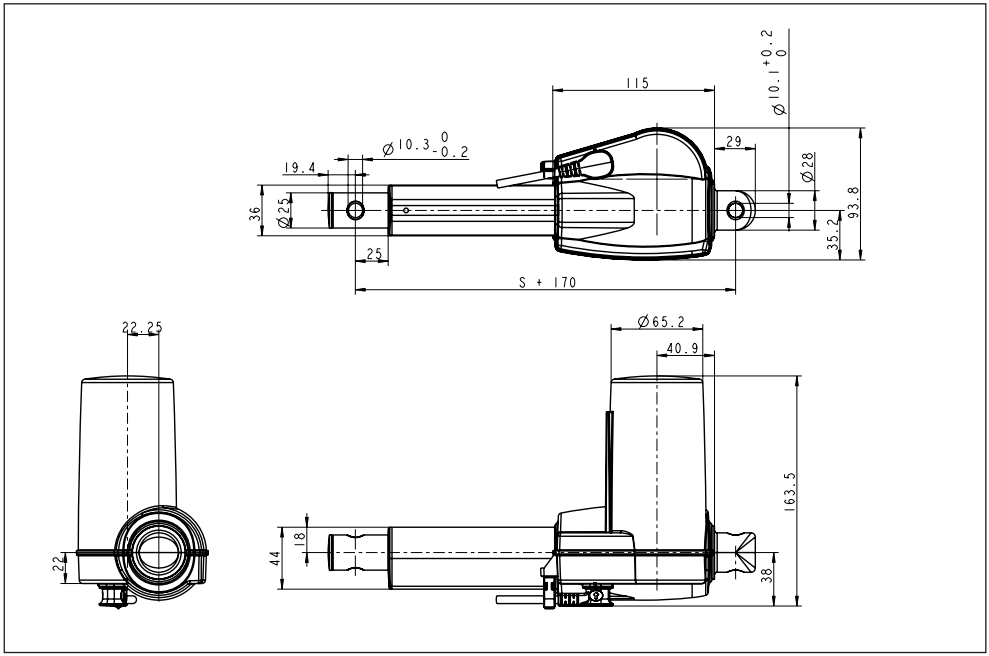


SMPS002

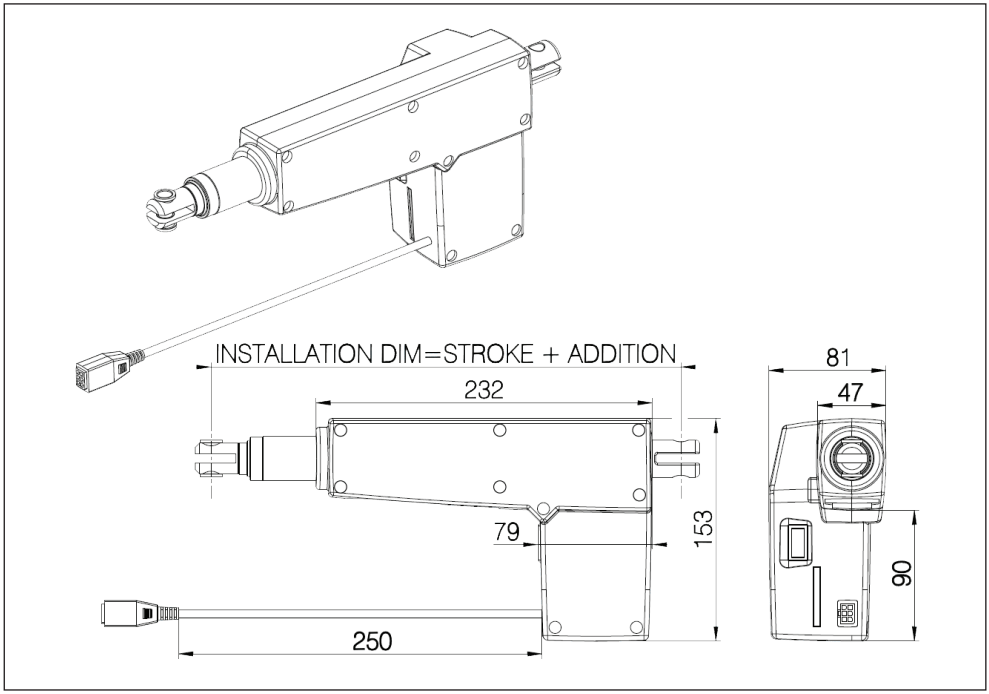



54
38.3
114
0.1W
standby power

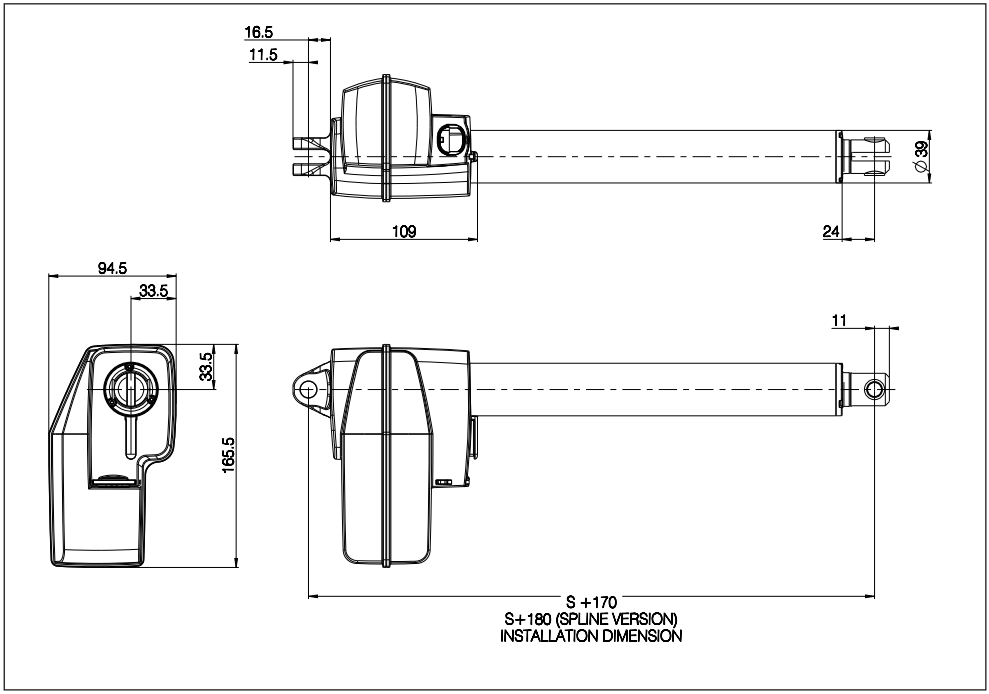
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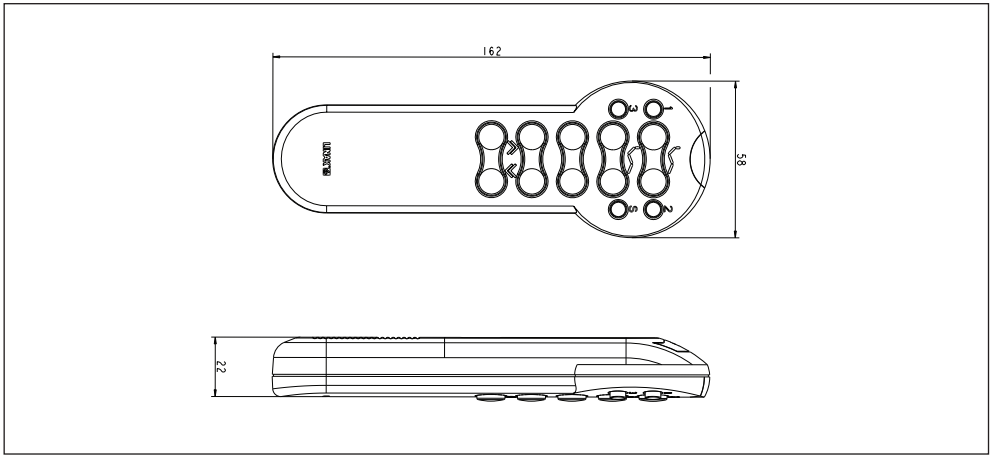
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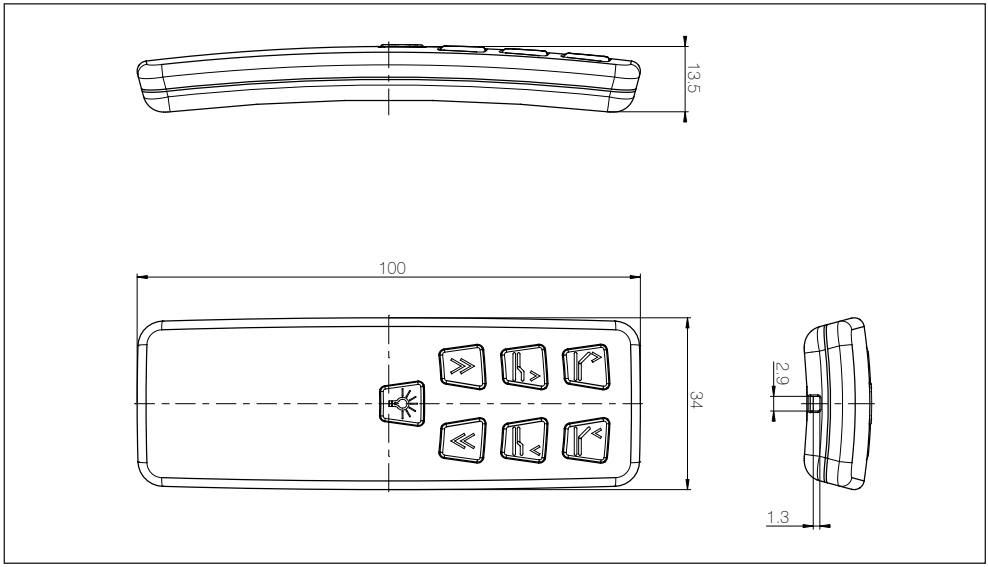
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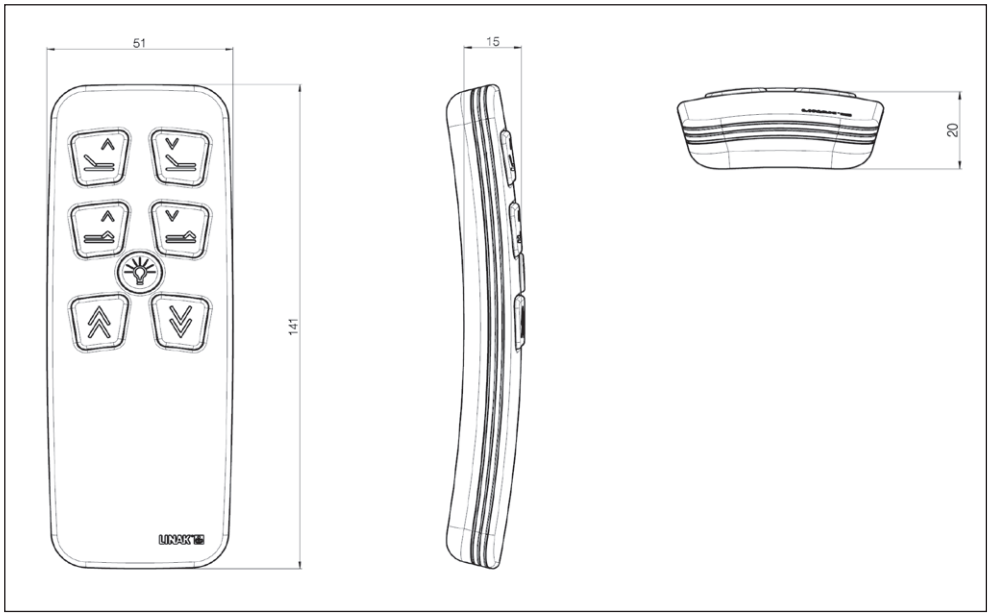
HB20RF Hand Control



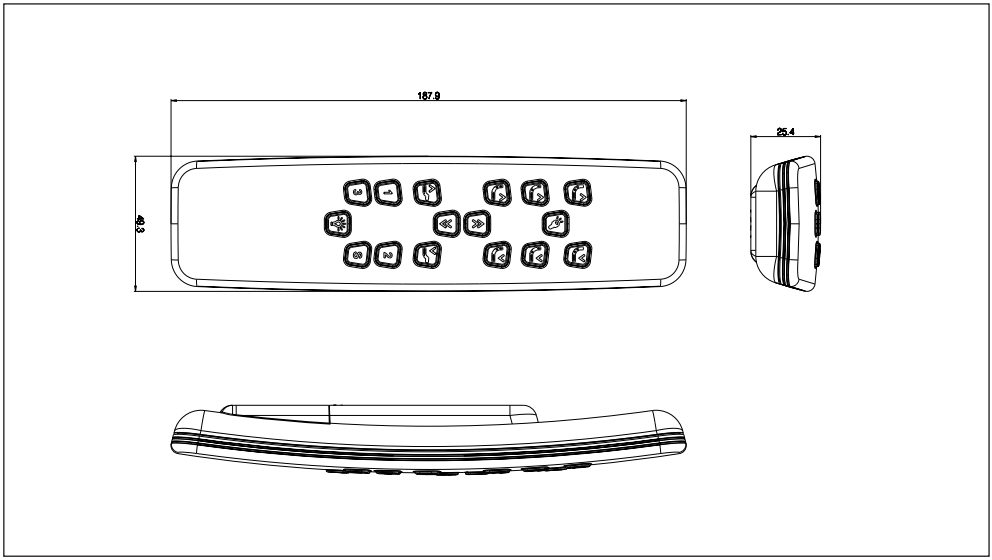
HC05 Wireless



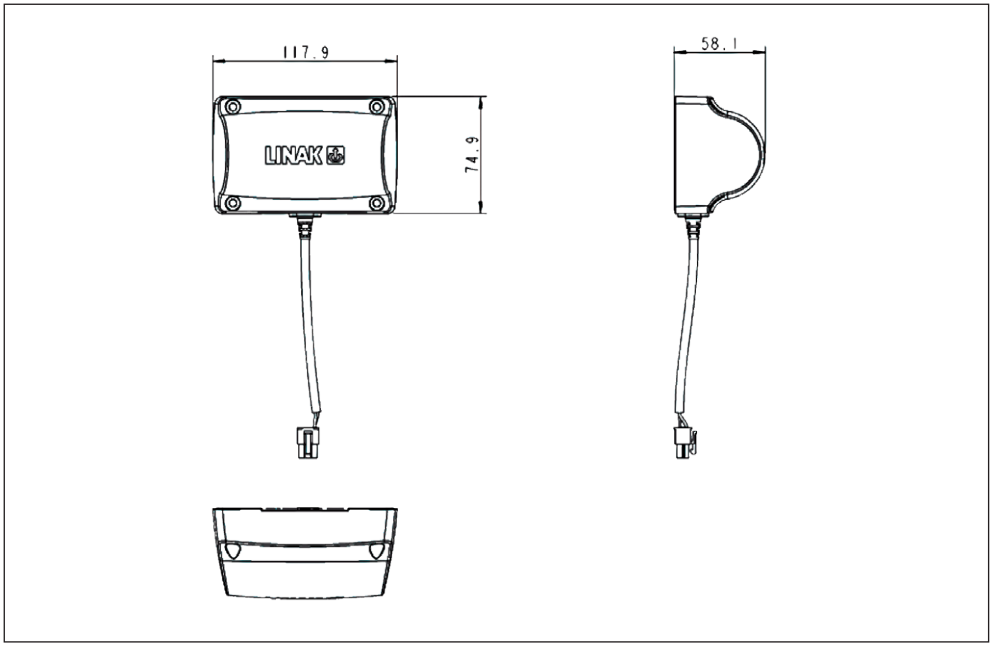
HC10 Wireless



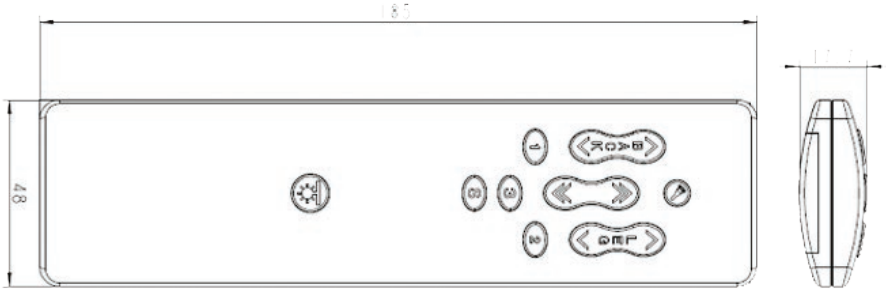
HC20RF Hand Control



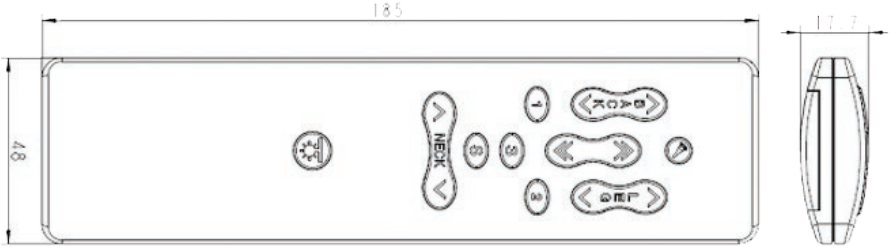
Massage motor MD1



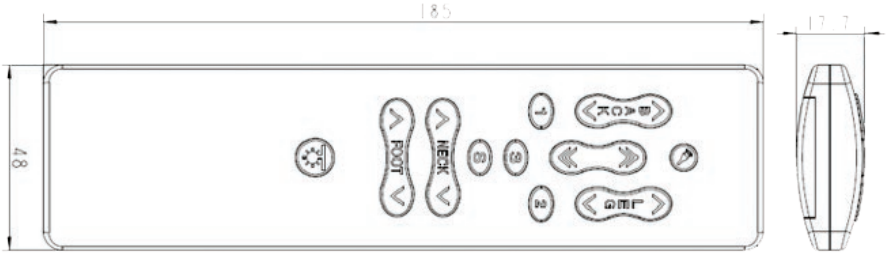
HC32BL1000



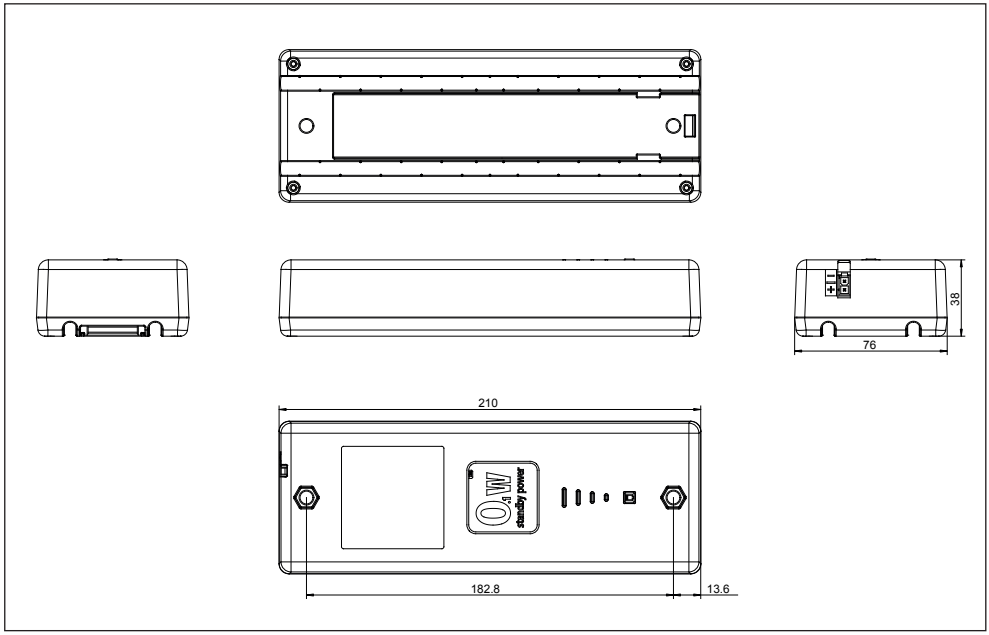
HC33BL1000



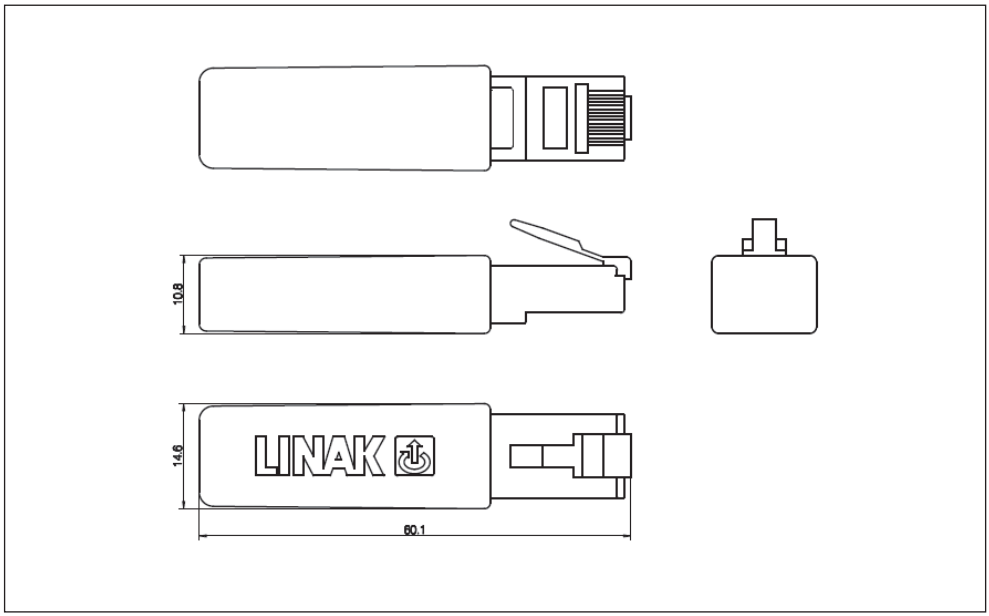
HC34BL1000



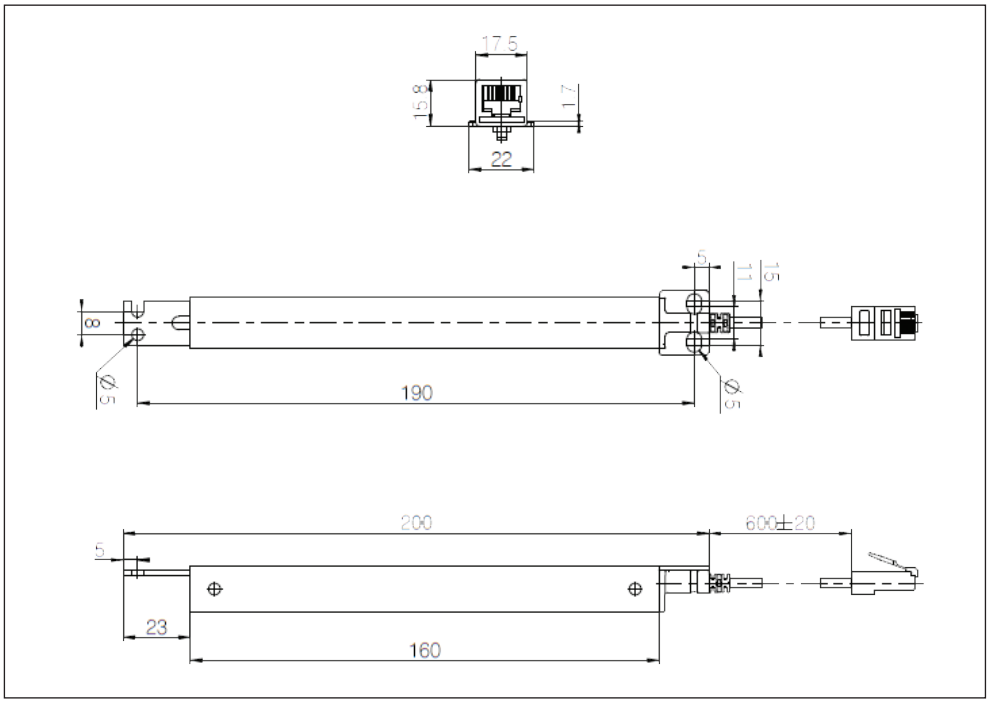
BA001



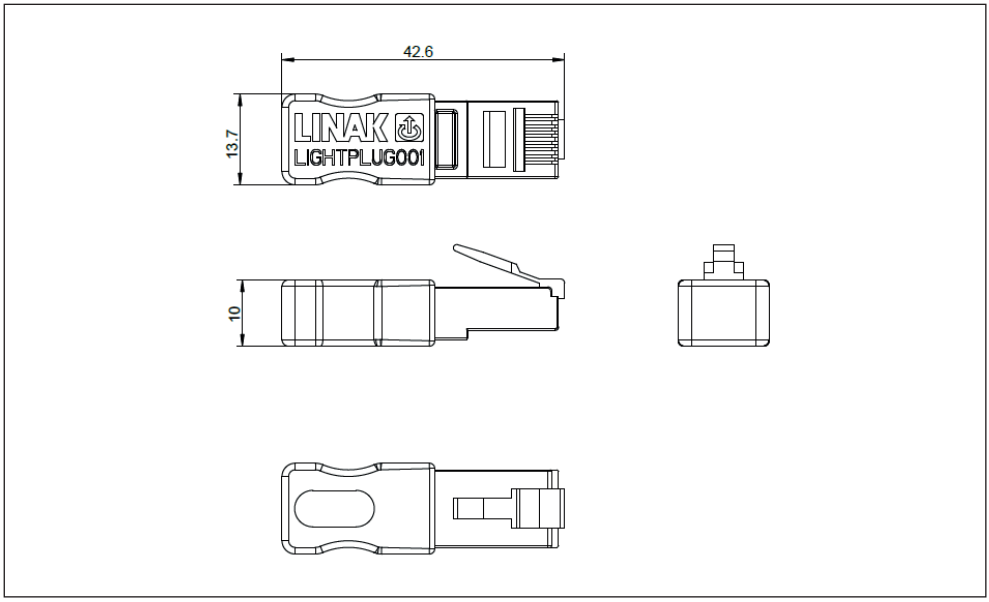
Bluetooth® Adapter



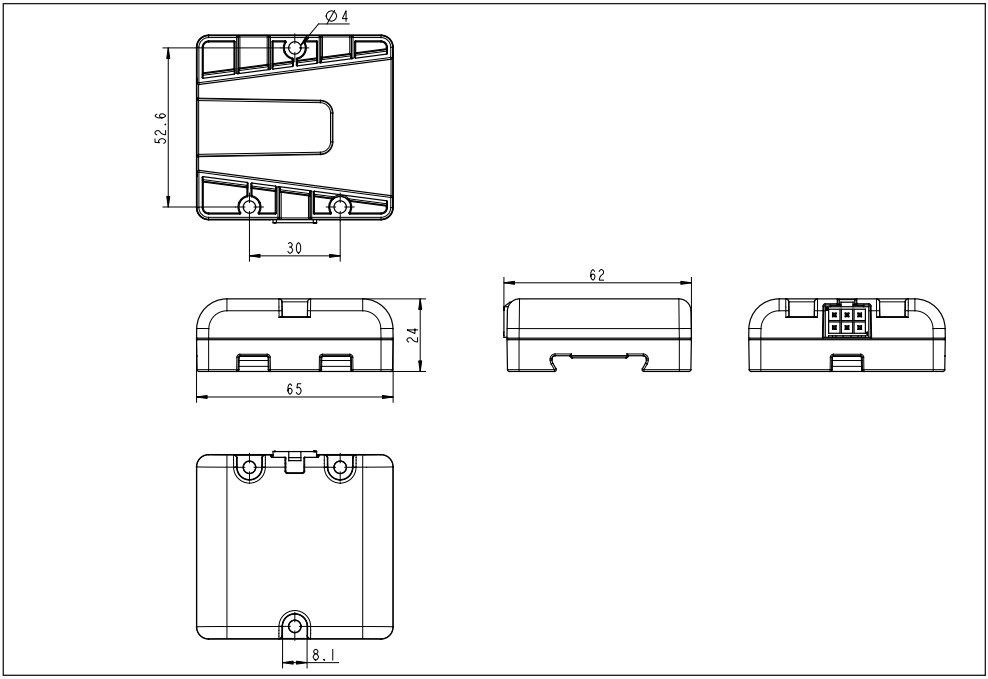
LED Light Rail



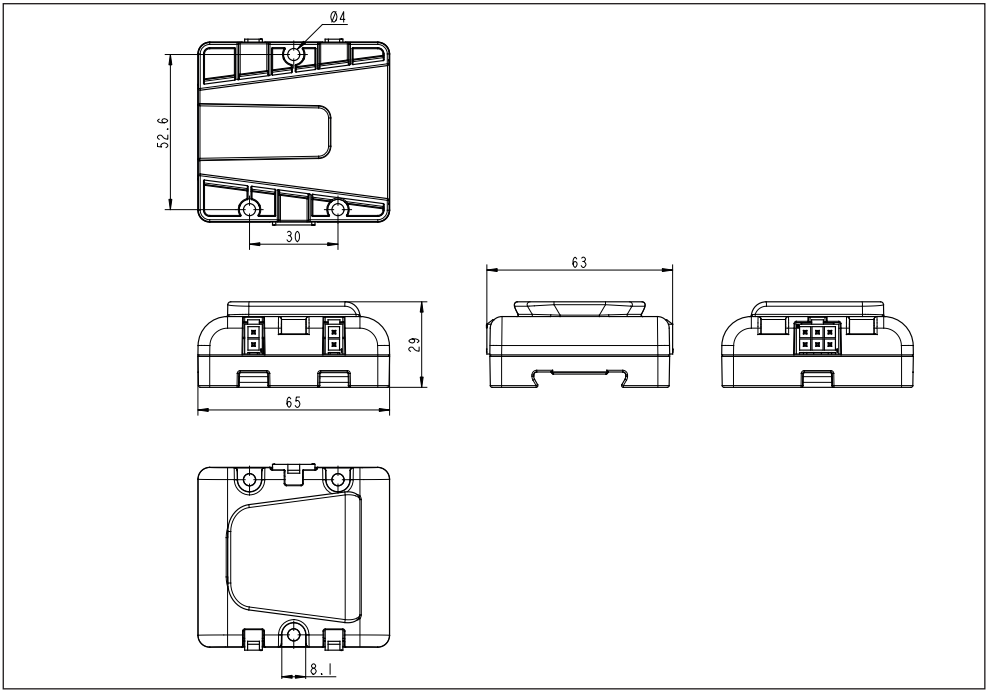
Lightplug



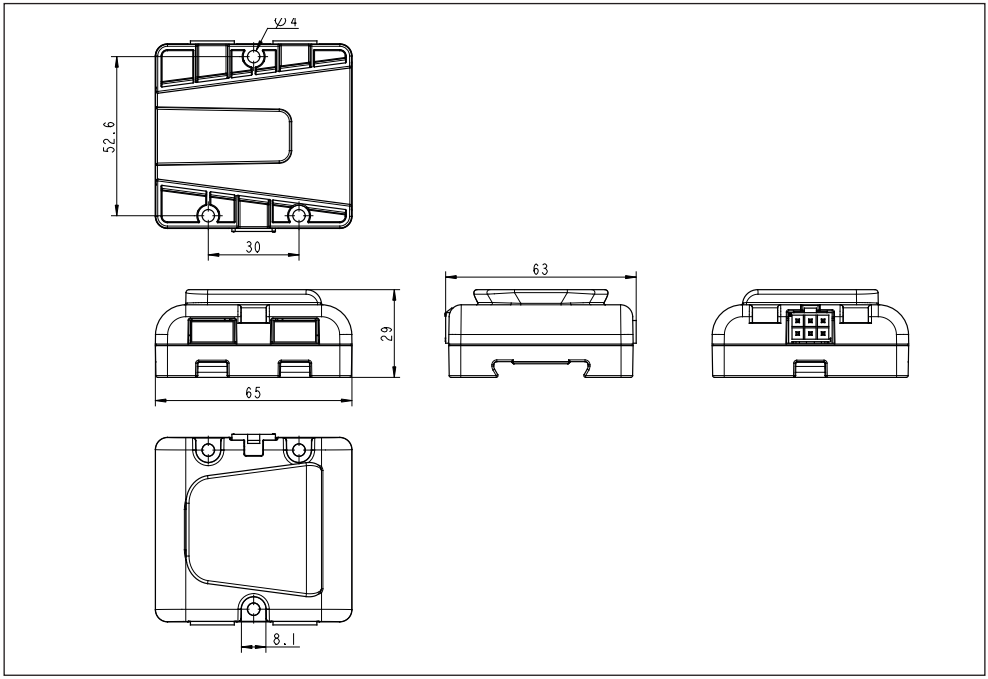
LED Lightbox



DC Connector



USB Connector



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