



CBD6DC HOMELINE[®]

User manual

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Preface

Dear User,

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 limited warranty on its products. This warranty is, however, 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. You can review the full terms of the LINAK warranty on the LINAK website www.linak.com/warranty.

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: TD4 Advanced, TD5 Advanced, and LA40

Control box: CBD6DC HOMELINE®

Controls: All wireless HOMELINE® controls

Power supply: SMPS001, SMPS002 and SMPS006

Accessories: WiFi2LIN module, BLE2LIN, Bed Control App, LED light rail, and massage motor

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 system 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 product is to be fitted, there must be no possibility of personal injury, for example squeezing of fingers or arms.



Ensure free space for movement of the application in both directions.



The CBD6DC is available as a 2-channel version and requires an external power supply unit, for example the SMPS006.



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

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 CBD6DC and the SMPS001/002/006 must not be packed in heat insulating material, but must be placed so that they can emit waste heat to the surroundings. There are no ventilation holes to consider, the CBD6DC/ SMPS emits heat through its surface.



Only the power supply type SMPS001, SMPS002 or SMPS006, shall be used with the system.

Before installation, de-installation or troubleshooting

- Stop the control box CBD6DC HOMELINE®.
- Disconnect the power supply.

Before start-up

- Make sure that the system has been installed as instructed in this User Manual.
- Make sure that the voltage is correct before the system is connected to the mains. (See the CBD6DC HOMELINE® label in the appendix).
- System connection. The individual parts must be connected before connecting to the mains.

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.
- Unplug the mains cable on mobile equipment before it is moved.

Misc.

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

Only for EU markets



This product 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 product in a safe way and understand the hazards involved.



Children shall not play with the product. 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 system in environments other than the intended indoor use.

Informations importantes

Les informations importantes sur les produits LINAK® peuvent être trouvées dans les rubriques suivantes:



Attention!

Le non respect de ces instructions peut entraîner des accidents impliquant des blessures graves.



Ne pas suivre ces instructions peut entraîner l'endommagement ou destruction du produit.

Consignes de sécurité



Général

Le non respect de ces instructions peut entraîner des accidents impliquant des blessures graves.

Ne pas suivre ces instructions peut entraîner l'endommagement ou destruction du produit.

L'utilisation en toute sécurité du système n'est possible que si l'intégralité des instructions ont été lues et ont été strictement suivies.



Le non respect de se conformer aux instructions marquées du symbole "note" peut entraîner de graves dommages au système ou à un de ses composants.

Il est important pour tout individu qui connecte, installe, ou utilise le système d'avoir les informations nécessaires et l'accès à ce manuel d'utilisation.

Suivez les instructions pour le montage – risque de blessure si ces instructions ne sont pas suivies.



L'appareil n'est pas destiné à être utilisé par des enfants ou des personnes handicapées sans surveillance.



S'il y a des dommages visibles sur le produit, l'installation ne doit pas être effectuée.



Prendre en compte lors de la construction du matériel, dans lequel l'actionneur est incorporé, qu'il ne doit y avoir aucune possibilité de blessures corporelles, telles que la compression des doigts ou des bras.



Assurez un espace libre autour du matériel pour éviter tout blocage.



Le CBD6DC existe en version 2 canaux et nécessite un module d'alimentation externe, par exemple le SMPS006.



Le produit ne doit être utilisé qu'avec le module d'alimentation fourni avec lui.

Instructions de sécurité



Le constructeur de l'équipement doit s'assurer que l'utilisation du composant est conforme aux normes en vigueur, comme la directive sur les machines. Il faut veiller à ne pas écraser les câbles, car cela peut entraîner un mouvement du système!



Le CBD6DC et le SMPS001/002/006 ne doivent pas être emballés dans un matériau isolant, mais doivent être placés de manière à pouvoir émettre de la chaleur résiduelle dans l'environnement. Il n'y a pas de trous de ventilation à prendre en compte, le CBD6DC/ SMPS émet de la chaleur par sa surface.



Seules les alimentations de type SMPS001, SMPS002 ou SMPS006 doivent être utilisées avec le système.

Avant l'installation, ré-installation ou le dépannage

- Arrêtez control box CBD6DC HOMELINE®
- Retirez la prise du secteur

Avant de démarrage

- Assurez-vous que le système a été installé comme indiqué dans le manuel d'utilisateur.
- Assurez-vous que la tension du boîtier de contrôle est correcte avant que le système soit connecté sur le secteur (Voir l'étiquette du CBD6DC HOMELINE® en annexe).
- Système de connexion. Les différentes pièces doivent être connectées entre elles avant que le boîtier de contrôle soit connecté au secteur. Consultez le manuel d'utilisation si nécessaire.

Pendant le fonctionnement

- Si le boîtier de contrôle émet un bruit ou odeurs inhabituelles, éteignez la tension immédiatement.
- Veuillez à ce que les câbles ne soient pas endommagés.
- Débranchez le câble d'alimentation sur l'équipement mobile avant qu'il ne soit déplacé.
- Les produits ne doivent-êtr utilisés que dans un environnement qui correspond à leur IP.

Divers

Les mises à jours des manuels et autres informations peuvent-êtr trouvées sur www.linak.com/homeline

Seulement pour les marchés au sein de l'UE



Ce produit peut-être utilisé par des enfants âgés de 8 ans et plus, ainsi que les personnes dont les capacités physiques, sensorielles ou mentales sont réduites ou ayant un manque d'expérience et de connaissance si elles ont bénéficié d'une surveillance ou d'instructions concernant l'utilisation du produit en toute sécurité et compris les risques encourus.



Les enfants ne doivent pas jouer avec le produit. Le nettoyage et l'entretien ne doivent pas être réalisés par des enfants sans surveillance.

Seulement pour les marchés hors UE



Les personnes qui n'ont pas l'expérience ou les connaissances nécessaires sur le ou les produit(s) ne doivent pas le ou les utiliser. Par ailleurs, les personnes ayant des capacités physiques, sensorielles ou mentales réduites ne doivent pas utiliser le ou les produit(s), sauf si elles sont sous surveillance ou ont suivi une formation approfondie de l'utilisation de l'appareil par l'individu responsable de la sécurité de ces personnes.



De plus, les enfants doivent-être sous surveillance afin de s'assurer qu'ils ne jouent pas avec le produit.

Utilisation abusive



Ne surchargez pas les actionneurs – cela peut engendrer un risque de blessures corporelles et endommager le système.



Ne pas utiliser le système dans des environnements autres que l'utilisation intérieure prévue.

Repairs

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

Further information on LINAK warranty can be found on the LINAK website www.linak.com/warranty.

EU DECLARATION OF CONFORMITY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

Herewith declares under our sole responsibility that the LINAK dual actuator system TWINDRIVE® for use in adjustable beds:

With main component (mark with CE) that are model: TDA and TDB
(with item number; TDA0b000Bccdd00, TDA1b000Bccdd00
(where; a describing spindel pitch; b describing Load rating; cc describing Back Angle; dd describing Leg Angle))

And options of

Port expander: CBD6DC

Linear Actuator(s): LA40

Controls: HC05BL, HC10BL, HC1ABL, HC10ECO, HC2xBL, HC30BL, HC40BL, BP10BL

Power Unit: SMPS001, SMPS006

Under bed light: LEDLightRail001, LEDLightRail002, LEDLR001-0001-xx

Accessories: Massage Motor; MD1000Dx

complies with the Radio Equipment Directive (RED) **2014/53/EU** (OJ L 153, 22.5.2014, p. 62–106) according to the standards:

Art.3.1 (a) Safety:

EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 (Harmonized to LVD)

EN 62368-1:2014 + A1:2017 (Harmonized to LVD)

Art. 3.1(b) EMC:

Draft ETSI EN 303 446-1 V1.2.0 (2019-03) - Combined Equipment, Emission

Draft ETSI EN 303 446-2 V1.2.0 (2019-03) - Combined Equipment, Immunity

ETSI EN 301 489-1 V2.2.3(2019 -11) - Radio Part

ETSI EN 301 489-17 V3.2.4(2020 -09) - Radio Part

EN 61000-6-2:2005/AC:2005 - Harmonised, non-radio part (harmonized to EMCDD)

(and also EN IEC 61000-6-2:2019 - Compliant, non-radio part)

EN 61000-6-3:2007/A1:2011/AC:2012 - Harmonised, non-radio part (harmonized to EMCDD)

(and also EN IEC 61000-6-3:2021 - Compliant, non-radio part)

Art. 3.2 Radio:

EN 300 328 V2.2.2 (2019-07)

Art.3.1 (a) Health:

EN 62233:2008+AC:2008 (Harmonized to LVD), EN 62479:2010 (Harmonized to LVD), EN 50663:2017

complies with Directive **2011/65/EU** of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (OJ L 174, 1.7.2011, p. 88–110) and Directive **2015/863** (OJ L 137, 4.6.2015, p. 10–12) (amending Annex II to Directive 2011/65/EU) according to the standard:

EN IEC 63000:2018

Nordborg, 2022-04-08

LINAK A/S
Dragan Macura
Regulatory Compliance Manager
Deskline and Homeline Segments



UK DECLARATION OF CONFORMITY

LINAK A/S
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DK - 6430 Nordborg

Herewith declares under our sole responsibility that the LINAK dual actuator system TWINDRIVE® for use in adjustable beds:

With main component (mark with UKCA) that are model: TDA and TDB
(with item number; TDA0b000Bccdd00, TDA1b000Bccdd00
(where; a describing spindle pitch; b describing Load rating; cc describing Back Angle; dd describing Leg Angle))

And option of

Port expander: CBD6DC

Linear Actuator(s): LA40

Controls: HC10BL, HC20BL, HC30BL, HC40BL, HC05BL, BP10

Power Supply: SMPS006

Accessories: LEDLightRail001, LEDLightRail002, LEDLR001-0001-xx

Accessories: Massage Motor; MD1000Dx

complies with **Radio Equipment Regulations 2017** according to the standards:

Safety:

BS EN 62368-1:2014 + A11:2017

BS EN 60335-1:2012 + A2:2019

EMC:

Draft ETSI EN 303 446-1 V1.2.0 (2019-03) - Combined Equipment, Emission

Draft ETSI EN 303 446-2 V1.2.0 (2019-03) - Combined Equipment, Immunity

ETSI EN 301 489-1 V2.2.3(2019 -11) - Radio Part

ETSI EN 301 489-17 V3.2.4(2020 -09) - Radio Part

BS EN 61000-6-2:2005/AC:2005 - Harmonised, non-radio part

(and also BS EN IEC 61000-6-2:2019 - Compliant, non-radio part)

BS EN 61000-6-3:2007/A1:2011/AC:2012 - Harmonised, non-radio part

(and also BS EN IEC 61000-6-3:2021 - Compliant, non-radio part)

Radio:

EN 300 328 V2.2.2 (2019-07)

Health:

BS EN 50663:2017

BS EN 62479:2010

complies with **The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012** according to the standard:

BS EN IEC 63000:2018

Nordborg, 2022-04-08

LINAK A/S

Dragan Macura

Regulatory Compliance Manager

Deskline and Homeline Segments

Authorized to compile the relevant technical documentation

Original Declaration 

Misc. on the CBD6DC HOMELINE

The CBD6DC is an optimal choice for TD4/TD5 Advanced and LA40 applications together with various accessories, such as massage motors or extra light.

Warranty

This HOMELINE product is subject to warranty pursuant to the terms of LINAK HOMELINE Warranty Paper, available on the LINAK website www.linak.com/warranty.

Maintenance

Clean dust and dirt on the outside of the system at appropriate intervals and inspect it 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).

Description of the CBD6DC HOMELINE

The control box ensures smooth adjustment of the bed and soft start and stop of the connected actuators. Another feature is auto-detection of the type.

The CBD6DC is a small and compact control box that requires a minimum of space when mounted.

On opposite sides, the control box has two plugs for connection of actuators. Furthermore, it has two DC plugs and two RJ45 plugs. All plugs are white, so they are easily recognised, for example under the bed.

The CBD6DC is available as a 2-channel version and requires an external power supply unit, for example the SMP5006.

Installation



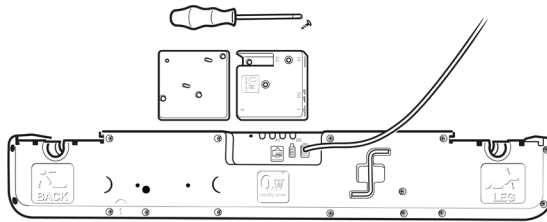
Do not pack the CBD6DC in heat insulating material.
Place the CBD6DC so it can emit heat through its surface to the surroundings.

Mounting the CBD6DC on the TD4/TD5 Advanced

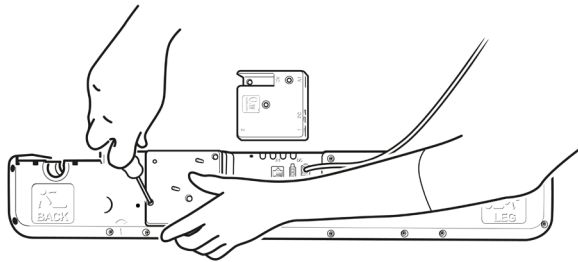
1. The CBD6DC can be mounted directly on a TD4/TD5 by means of the bracket and one screw.

NOTE:

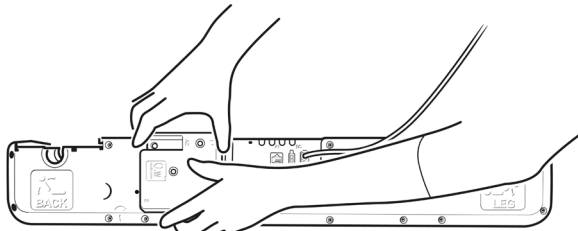
Bracket and screw must be ordered separately (item number SA1062W1004).



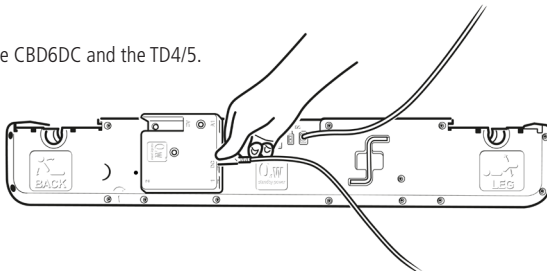
2. The bracket fits into the existing screw holes in the TD4/TD5. Place the bracket on the TD4/TD5 and fasten the screw.



3. Place the CBD6DC on the bracket. Push down until it is clicked onto the bracket.



4. Plug the cables into the CBD6DC and the TD4/5.



Mounting the CBD6DC on the bed frame

1. Mount CBD6DC using two screws with a head diameter of 10 mm (8 to 10 mm can be used).
2. Fasten mounting screws (max. torque 1 Nm).

Notes:

- The surface to which the control box is mounted should have an evenness better than ± 0.5 mm.
- The control box can also be mounted using one or two M6 nuts and screw counterparts, see Drawing appendix.
- The power plug must be accessible when the CBD6DC is mounted so that the supply to the CBD6DC can be disconnected if replacement is required.

Electrical connection

External power supply

The CBD6DC is compatible with Switch Mode Power Supply SMPS001, SMPS002 and SMPS006.

1. Connect the actuator motor cable(s) to plug(s) 1 (and 2).
2. Connect any other accessories/devices.
3. Connect the external power supply (SMPS) to the CBD6DC.

Disposal of LINAK products

As LINAK 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 to disassemble our product into as many fractions as possible at the disposal and try to make it recyclable. As examples of main groups within waste fractions we can mention:

Metal, plastic, cable shoe, combustible waste and collection for recovery.

Some of these main groups can be subdivided, e.g. metal can be divided into iron, stainless steel and aluminium and alloy steel. Plastic can e.g. be divided into ABS, PA, PE and PP.

As an example of sorting, please find below a list stating in which recycling groups the different components of LINAK products ought to be placed:

Product	Components	Recycling group
Actuator:	Spindle and motor Plastic housing Cable	Scrap Plastic recycling or combustion Cable scrap or combustion
Massage motor:	Plastic housing Cable	Plastic recycling or combustion Cable scrap or combustion
Control box:	PCB Plastic housing	Electronics scrap Plastic recycling or combustion
Handset/Control:	Plastic housing PCB Batteries	Plastic recycling or combustion Electronics scrap Recovery

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

Main groups of disposal

Product main groups	Scrap	Cable scrap	Electronics scrap	Plastic recycling or combustion	Comments
CBD6DC HOMELINE			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 the local recycling system. Please do not throw used or leaking batteries in normal household waste or in nature. This will cause damage to the environment.

How to deal with leaking batteries

Leaking batteries should be disposed as described above.

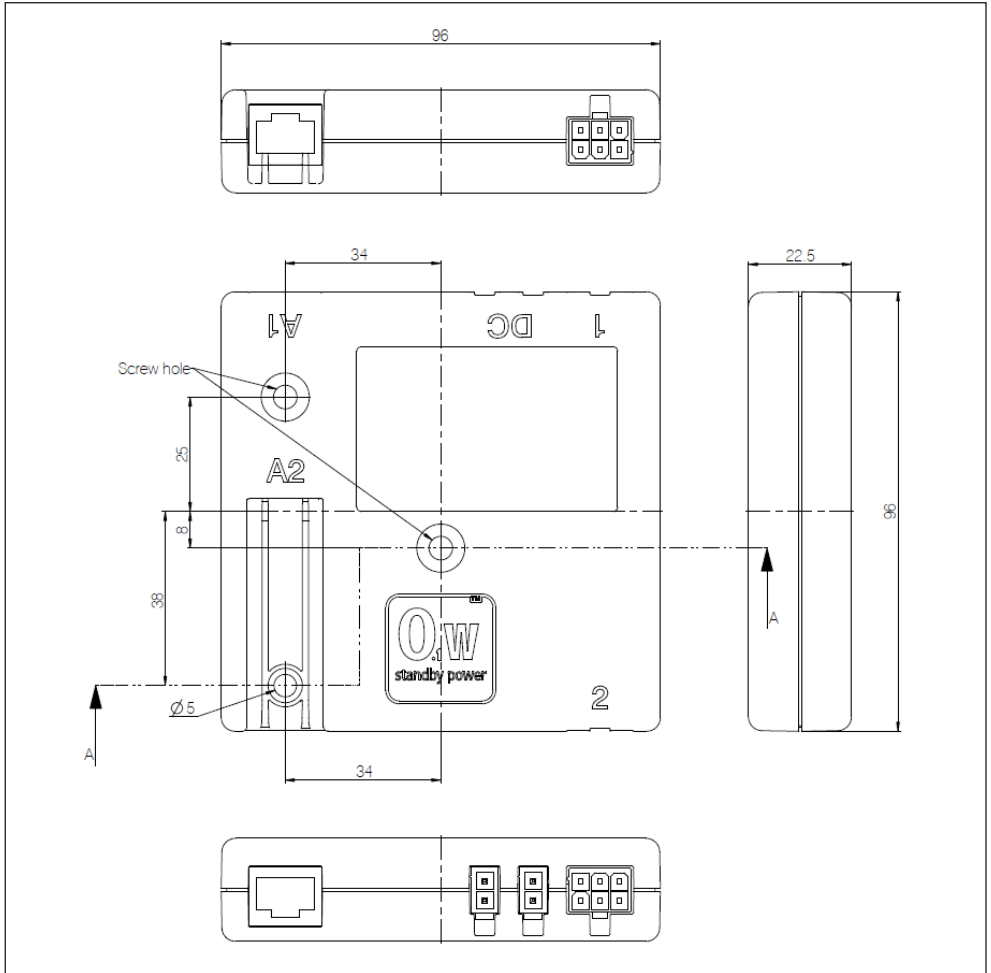
If leaking batteries are discovered in the product the batteries must be removed at once to minimise damage to the product. If leaking batteries are left in the product, it may become defective.

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

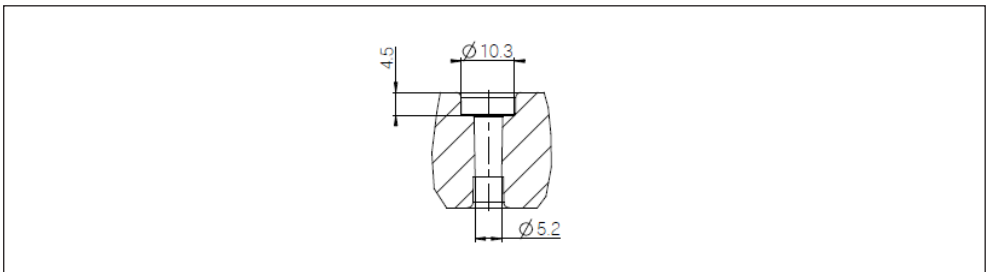
If exposed to the contents of a leaking battery, please wash with soap and water. If irritation persists, please seek medical attention. In case of eye contact, please flush eyes thoroughly with water for 15 minutes and seek medical attention.

DRAWING APPENDIX

CBD6DC dimension



Screw hole dimension



LINAK APPLICATION POLICY

The purpose of the application policy is to define areas of responsibilities in relation to applying a LINAK product defined as hardware, software, technical advice, etc. related to an existing or a new customer application.

LINAK products as defined above are applicable for a wide range of applications within the Medical, Furniture, Desk, and Industry areas. Yet, LINAK cannot know all the conditions under which LINAK products will be installed, used, and operated, as each individual application is unique.

The suitability and functionality of the LINAK product and its performance under varying conditions (application, vibration, load, humidity, temperature, frequency, etc.) can only be verified by testing, and shall ultimately be the responsibility of the LINAK customer using any LINAK product.

LINAK shall be responsible solely that the LINAK products comply with the specifications set out by LINAK and it shall be the responsibility of the LINAK customer to ensure that the specific LINAK product can be used for the application in question.

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