CONTROL BOX CB12

Features:

• Mains voltage: 230 & 100/120 V AC 50-60 Hz

Output voltage: 24 V DCProtection class: IP51

• Colour: black

- DIN socket for handset HB40, HB70 or ACP/ACM box
- Exchangeable 3.2 m straight mains cable
- Electronic overload protection (EOP) for all channels
- Compact high-power toroidal transformer ensures low power consumption and low electromagnetic emission
- Locking mechanism for DIN, jack- and mains sockets
- CB12 has a replaceable primary fuse which protects the CB12 against overload. The transformer is protected via a non-replaceable thermal fuse.

Options:

- Battery back-up: available with internally or externally fitted battery sets (BA18) (1.2Ah).
 The internal charging system cannot charge both internal and external batteries.
- Battery alarm indicates low battery charge with a buzzer.
- Protection class: IP66. The material used is resistent to the majority of cleaners and disinfectants used in the hospital and nursing home sector. A control box with IP66 can be used in wash tunnels - see the user manual (LINAK control boxes) for further information.
- Colour: grey
- Class 1: Earth connections outside the control box and 3-wire mains cable
- Automatic mains cut-off when in standby mode
- Audio alarm warns if there is liquid inside the control box (only possible on AT/BT version)
- 0.6 m coiled mains cable
- Mains fuse replaceable from the outside, extra fuse placed on lid

Usage:

- Duty cycle: 2/18; 2 min. continuous use followed by 18 min. not in use
- For up to 4 actuators: types LA28S, LA30L, LA31, LA32 or LA34 (LA34 with fast motor is possible but only up to 8 amp) and BL4 (only CB12H) (all actuators must be equipped with a jack-plug)
- Ambient temperature +5° to +40° C
- Medically approved according to EN 60601-1



The CB12 product range features three standard versions, which are ideal for a vast number of medical and industrial applications.

In general the CB12 is a transformer operated control unit, which can control up to 4 acutators. The control box features a range of built-in safety devices, increased current cut-off, EAS (Electronic Arc Suppression) and other options such as battery back-up, earth out-let, wet alarm etc.

The standard product range:

CB12, CB12E with EAS and CB12H with EAS. The CB12E and CB12H with EAS are specially developed for use together with the LA34 actuator.



Options for CB12E:

- Charging indicator circuit for the charging indicator on ACP/ACM (only possible if ch.4 not mounted, (only serial connection possible).
- 7A current cut-off on channel 1 up or down or channel 2 up or down or any other combination i.e. 8.000 N thrust for an LA34 wtih 12 mm pitch and standard motor. The current cut off in the opposite direction will be standard 5.5 A.
- The control box can be chosen with a standard CB12 transformer or a high power transformer from CB14/18.

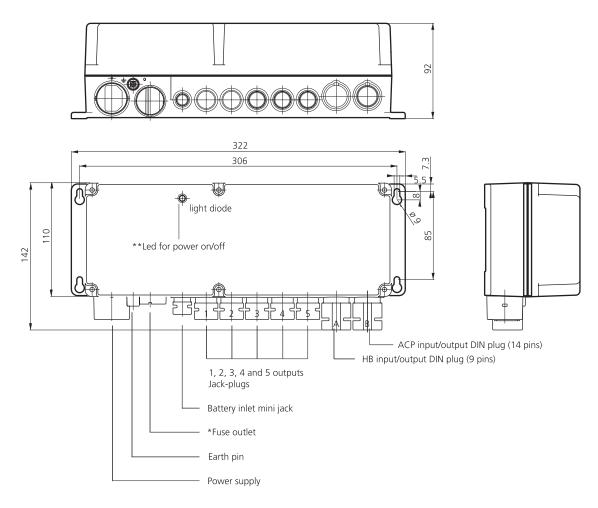
Options for CB12H with EAS:

- Charging indicator circuit for charging indicator on ACP / ACM (only possible if ch. 4 not mounted, must be specified parallel or serial connection).
- 8 A current cut-off on channel 1 up or down or channel 2 up or down or any other combination i.e. 10.000 N thrust for an LA34 with 12 mm pitch standard motor. The current cut off in the opposite direction will be standard 5.5 A.
- The control box can be chosen with the standard CB12 transformer or the high power transformer from CB14/18
- Special hospital versions: H (most versions demand special article, see description).
- If battery backup option is chosen, the internal charging device is always present.

As standard CB12, CB12E and CB12H can be used with the ACM/ACP (only serial connection). Use of the ACP and CB12 in parallel is only possible as a special article and requires additional information.

Note: To ensure compatibility between the ACM/ACP and the CB12, please always specify the type and functionality of the required ACM/ACP.

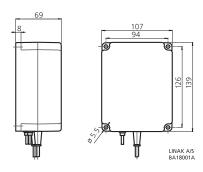
Dimensions:



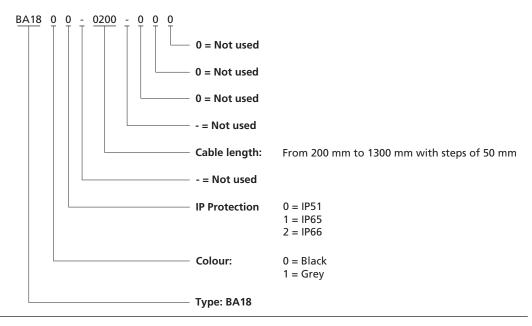
^{*}Ekstra fuse place on the lid

^{**} Turns off when mains cut-off is active or by removal of the power plug

BA18 Dimensions:



BA18 Battery box (1.2 Ah) Ordering example:



How to choose the right transformer type: std. CB12 or high power CB14/18.

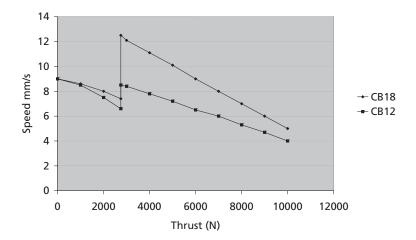
The secondary voltage in a transformer (voltage for the actuator) decreases when there is a current consumption.

The higher current consumption the more the drop in voltage.

The voltage drop depends on the size of the transformer. - a large transformer will have less voltage drop than a small transformer with the same load. When you increase the current cut-off setting the current consumption from the actuator will increase, but the voltage drop will also increase. This will result in a drop in actuator speed.

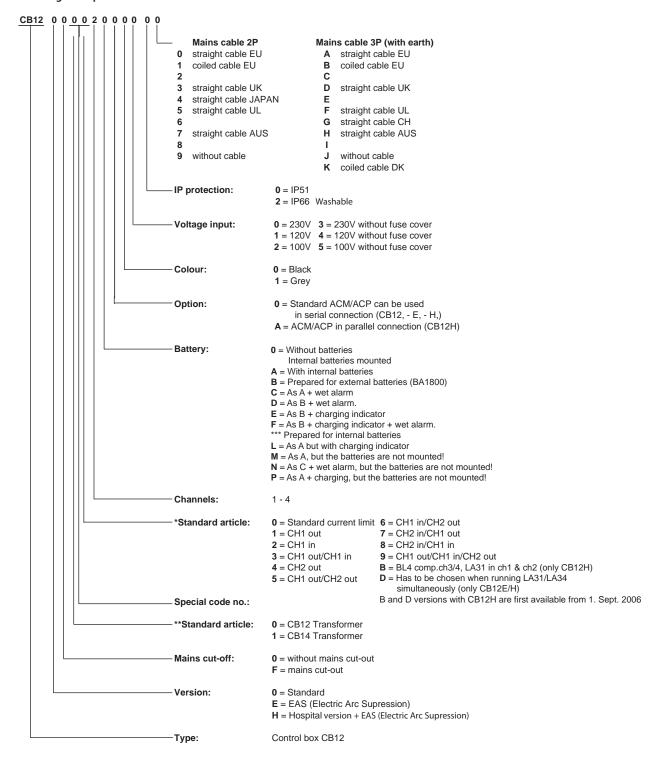
By using a larger transformer, as the one in CB14/18 in CB12, this can partly compensate for the increased voltage drop of an LA34 as LA34 demands more power with heavy loads.

Graph:



The measurements are made in connection with a CB12H with 8 Amp. current cut-off and LA34 with12 mm pitch, -both randomly selected. The measurements must only be used as guidelines!

CB12
Ordering example:



^{*} By using digits 1-9 increased current cut-off can be chosen on the listed channel combinations: Version E = 7A; version H =8A. All current limits are evaluated via common measurements.

^{**} For E or H versions a high power transformer can be chosen (use option =1).

^{***} Battery BA1201 has to be ordered separately for M,P and N versions. The battery is not mounted at LINAK A/S.