



Control Box CB12 Data sheet

CB12

The CB12 product range features two 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 actuators. 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 outlet, wet alarm etc..

The standard product range:

- CB12E with EAS
- CB12H with EAS

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



Features for CB12E, CB12H with EAS:

- Mains voltage: 230 & 100 / 120 V AC 50-60 Hz
- Output voltage: 24 V DC
- Protection class: IPX1
- Colour: black
- DIN socket for handset HB40, HB70, HB80 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 for CB12E and CB12H with EAS:

- Battery back-up: available with internally or externally fitted battery sets (BA18) (1.2 Ah). The internal charging system cannot charge both internal and external batteries
- Battery alarm: indicates low battery charge with a buzzer
- Protection class: IPX6. The material used is resistant 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
- Audio alarm: warns if there is liquid inside the control box (only possible with internal charger)
- Mains cable: 0.6 m coiled mains cable
- Mains fuse: replaceable from the outside, extra fuse placed on lid

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Options for CB12E:

- Charging indicator circuit for the charging indicator on ACP (only possible if ch. 4 channel functions not mounted on ACP. ACM only possible if ch. 3 channel functions not mounted on ACM (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 with 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.

Options for CB12H with EAS:

- Charging indicator circuit for charging indicator on ACP (only possible if ch. 4 channel functions not mounted on ACP. ACM only possible if ch. 3 channel functions not mounted on ACM (only serial connection possible).
- 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.
- Special hospital versions: H (most versions demand special article, see description).
- If battery backup option is chosen, the internal charging device is always present.

Usage:

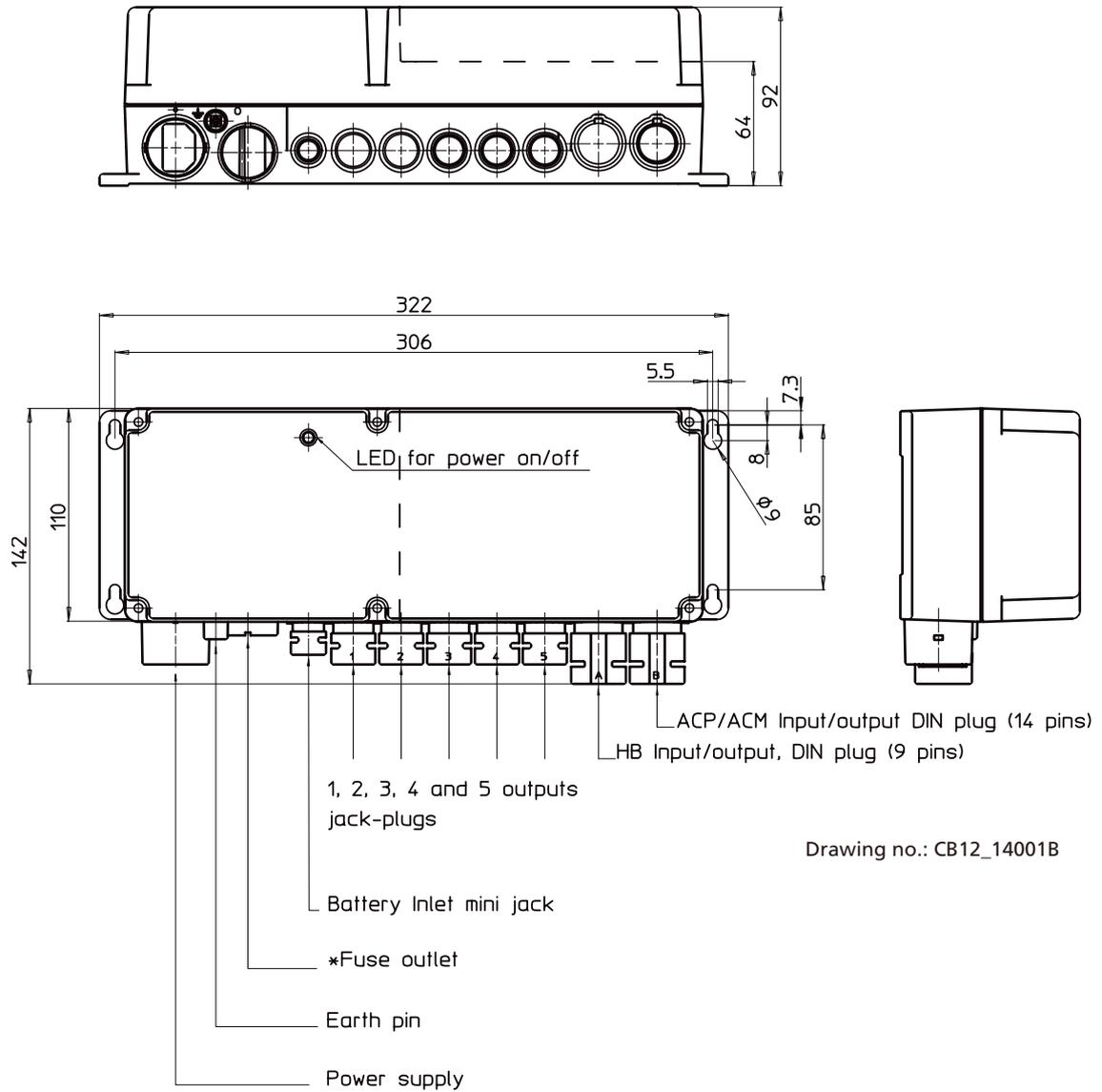
- Duty cycle: Standard current cut-off: 2/18; 2 minutes continuous use followed by 18 minutes not in use.
7A or 8A current cut-off: 1/19; 1minute continuous use followed by 19 minutes not in use.
- Compatibility: For up to 4 actuators: types LA28S, LA30L, LA31, LA32 or LA34 (LA34 with fast motor is possible 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
- Approvals: IEC60601-1:2005 3rd ed.,
ANSI / AAMI ES60601-1:2005, 3rd edition,
CAN / CSA-22.2 No 60601-1:2008 approved



Precautions

- As standard, CB12E and CB12H can be used with the ACM/ACP (only serial connection). Use of the ACP with full functions and CB12H in parallel is only possible as a special article and requires additional information.
- To ensure compatibility between the ACM/ACP and the CB12H, please always specify the type and functionality of the required ACM/ACP.

Dimensions:

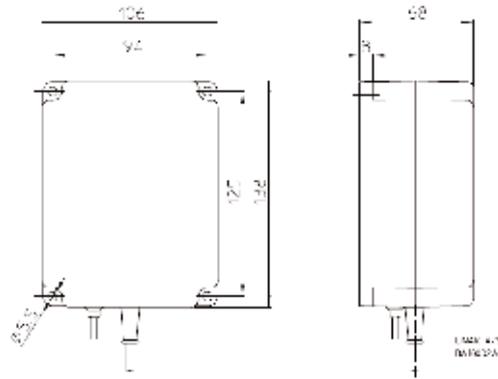


Drawing no.: CB12_14001B

* Extra fuse placed on the lid.

BA18

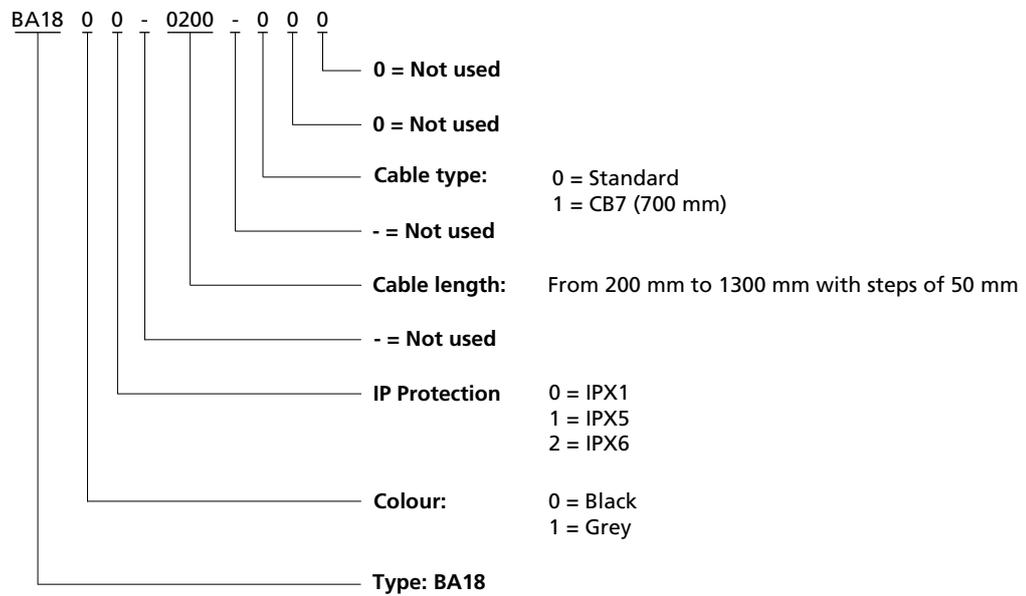
Dimensions:



Weight: 1.25 Kg

BA18 Battery box (1.2 Ah)

Ordering example:



How to choose the right transformer type: standard or high-power

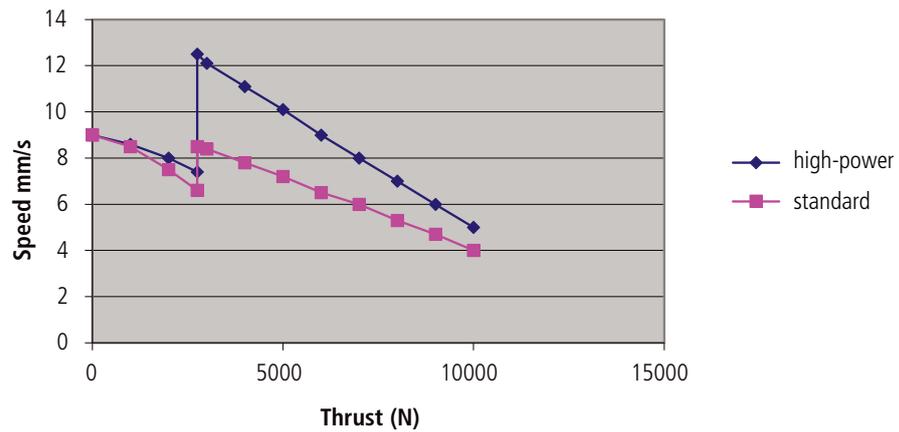
The secondary voltage in a transformer (voltage for the actuator) decreases when there is a current consumption.

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.

The use of the high-power transformer 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 with 12 mm pitch, -both randomly selected.

The measurements must only be used as guidelines!

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