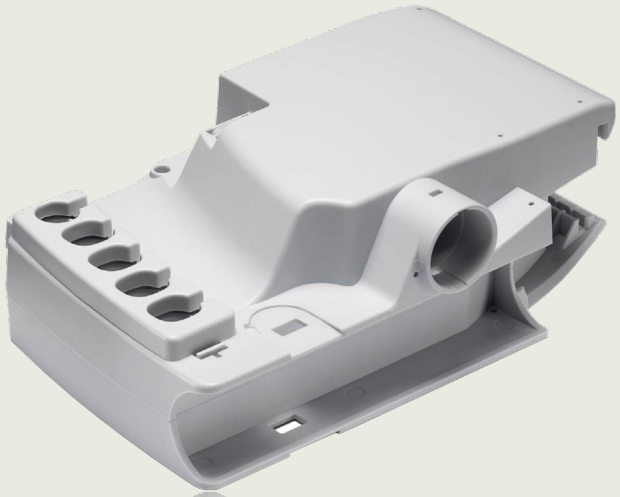
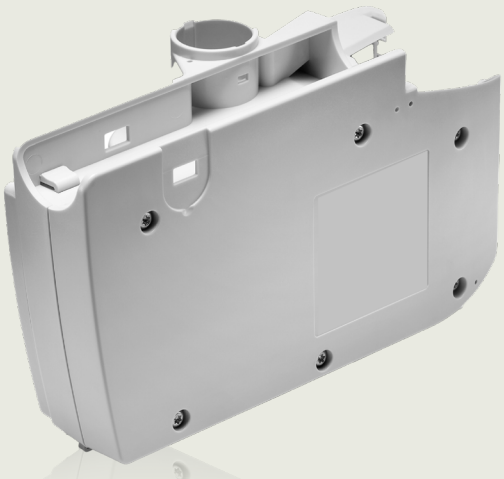
Control Box CB6S MK2

Data Sheet





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Introduction

The CB6S MK2 is part of the LINAK OpenBus™ product range that provides more flexible solutions no matter which actuator concept is preferred.

It is a powerful control box with Switch Mode Power Supply (SMPS) which is typically used for applications like hospital beds, couches/tables for treatment and examination and other medical applications.

The universal SMPS makes the control box adaptable to the worldwide market irrespective of the input voltage.

Easy troubleshooting and the possibility for read-out of lifetime actuator information and battery state on a laptop via Service Data Tool (SDT).

With the CB6S MK2 you get more benefits such as:

- Universal SMPS covering from 100-240 VAC
- 200 W powerful SMPS with full software power management
- Exchangeable mains cables for worldwide compatibility
- Easy documentation of service visits with Service Data Tool (SDT)
- SMPS saves weight
- Easy software configuration in SoftCon2

Features and options

Power supply:	SMPS Universal: 200 W, 100-240 VAC 50/60 Hz
Standby current consumption, SMPS:	Approx. 0.8 W (230 V)
Channels:	4
Varistor:	For input voltage protection
Colour:	Light grey (RAL7035)
Weight:	700 g
Battery charger:	Yes
Charging indicator:	Supported
Battery alarm:	Yes, at medium battery level (19.6 V)
EOP:	Implemented in standard software
Housing type:	V-0
IP rating:	IPX6
Operation:	Real parallel (feedback possible)
Max. current, total:	10 A (EOP supported)
µ-processor:	128 kB (supports more complex software, for instance true parallel operation, feedback is possible)
Management:	With full software power management
Speed control:	Possible with special software (common for all channels)
Start/stop:	Soft start/direct stop
Light background:	Background light in hand controls supported (Vpermanent)
Control concept:	Relays (fully software-controlled EAS protection)
Service monitor:	Yes, supported
External battery connection (BA18):	Capacity: 1.3 Ah, must be ordered separately
Accessories:	OpenBus™ accessories

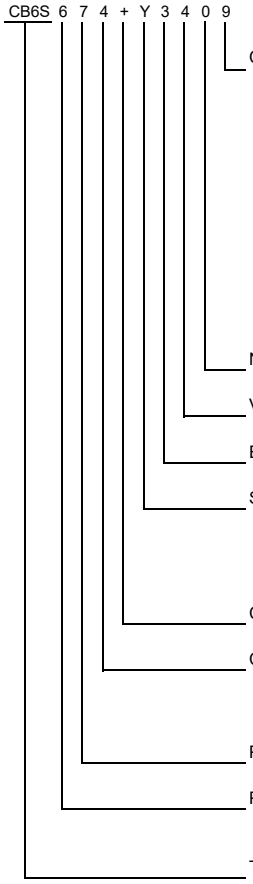
Usage

Operating temperature:	+5 °C to +40 °C
Storage temperature:	-10 °C to +50 °C
Relative humidity:	20% to 80% - non-condensing
Atmospheric pressure:	700 to 1060 hPa
Meters above sea level:	Max. 3000 meters

Mains supply grid should be limited to the highest prospective short circuit current of 1500 A.
Demands to mains supply safety for the application in accordance with IEC 60601-1 ed. 3.2, § 8.11.5

Approvals:	IEC 60601-1 ANSI/AAMI ES 60601-1 CAN/CSA-C22.2 No. 60601-1, Australian, Canadian deviation

Ordering example



Mains cable 2P:			Mains cable 3P with earth:
0	Straight cable EU	A	Straight cable EU
1	Coiled cable EU	B	Coiled cable EU
2		C	
3	Straight cable UK	D	Straight cable UK
4	Straight cable JAPAN	E	
5	Straight cable UL	F	Straight cable UL
6		G	Straight cable CH
7	Straight cable AUS	H	Straight cable AUS
8		I	
9	Without cable	J	Without cable **See note 1**
		K	Coiled cable DK

Voltage input: 4 => 100 to 240 V 50/60 Hz intern SMPS

Effect: 3 => SMPS characteristic 200 W

Software:
T => Test software for entrance control
Y => Special software package
N => Standard software package with same functionas Z-SW for OBF
M => Standard software package with same function as L-SW for OBMe

Colour: + => Plastics RAL 7035 (light grey)

Configuration of CH:
4 => CH 1->4
3 => CH 1, 2, 3
2 => CH 1, 2

PCB type: 7 => MK2 (OBMe) with external battery backup/internal SMPS

Protection class: 6 => IPx6

Type: **Control box CB6S MK2**

Notes
*1 Class 1 (Earth connection outside the control box and 3-wire mains cable with pig-tail needed)

Approvals and certifications

For approval documentation, LINAK recommends specifying the product type instead of individual item numbers to ensure broader approval coverage and simplify future product changes.

Listed LINAK item for application approval: CB6S

If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

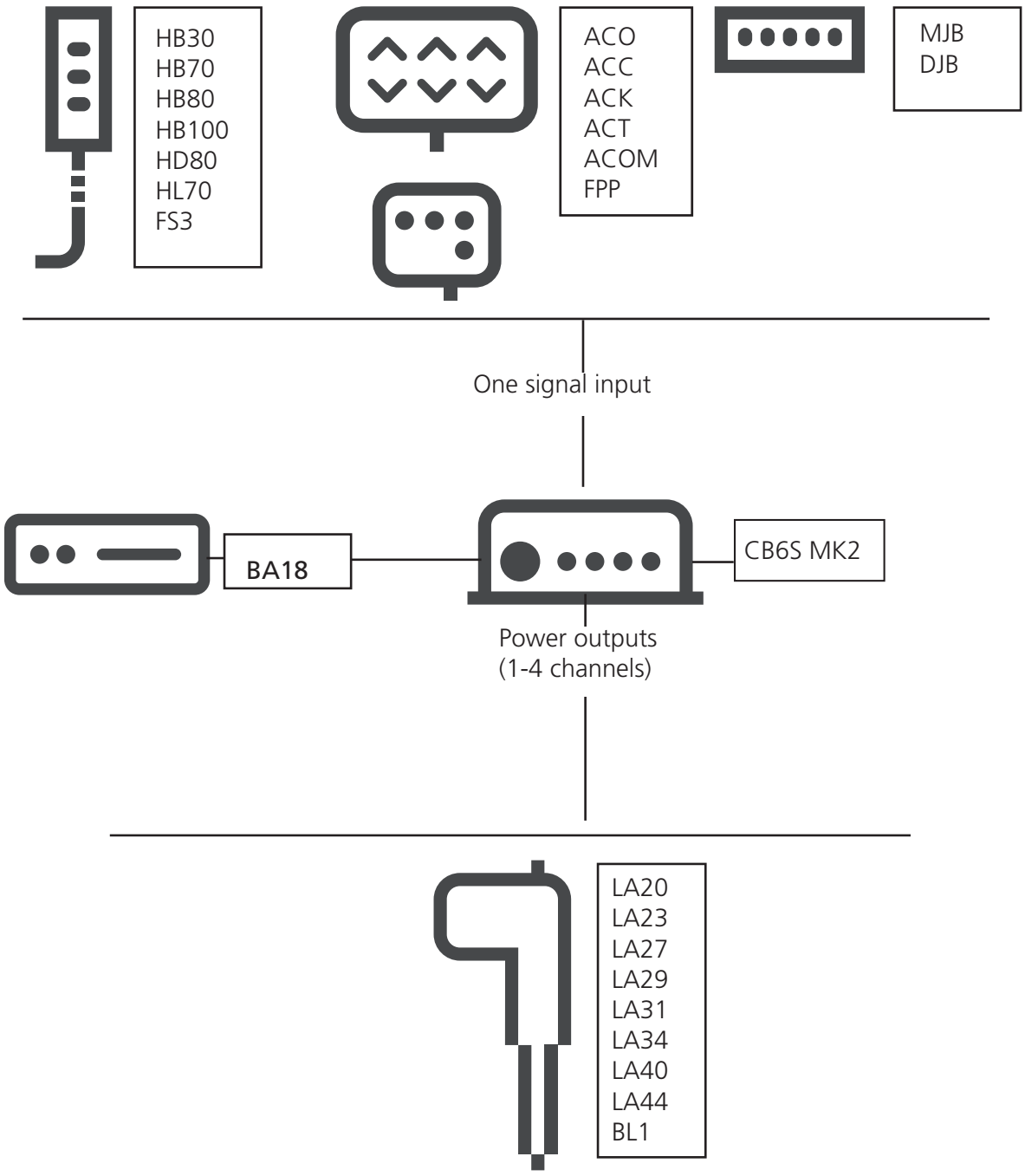
*Listed LINAK item for application approval: CB6S*S****SSS**

*" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.*

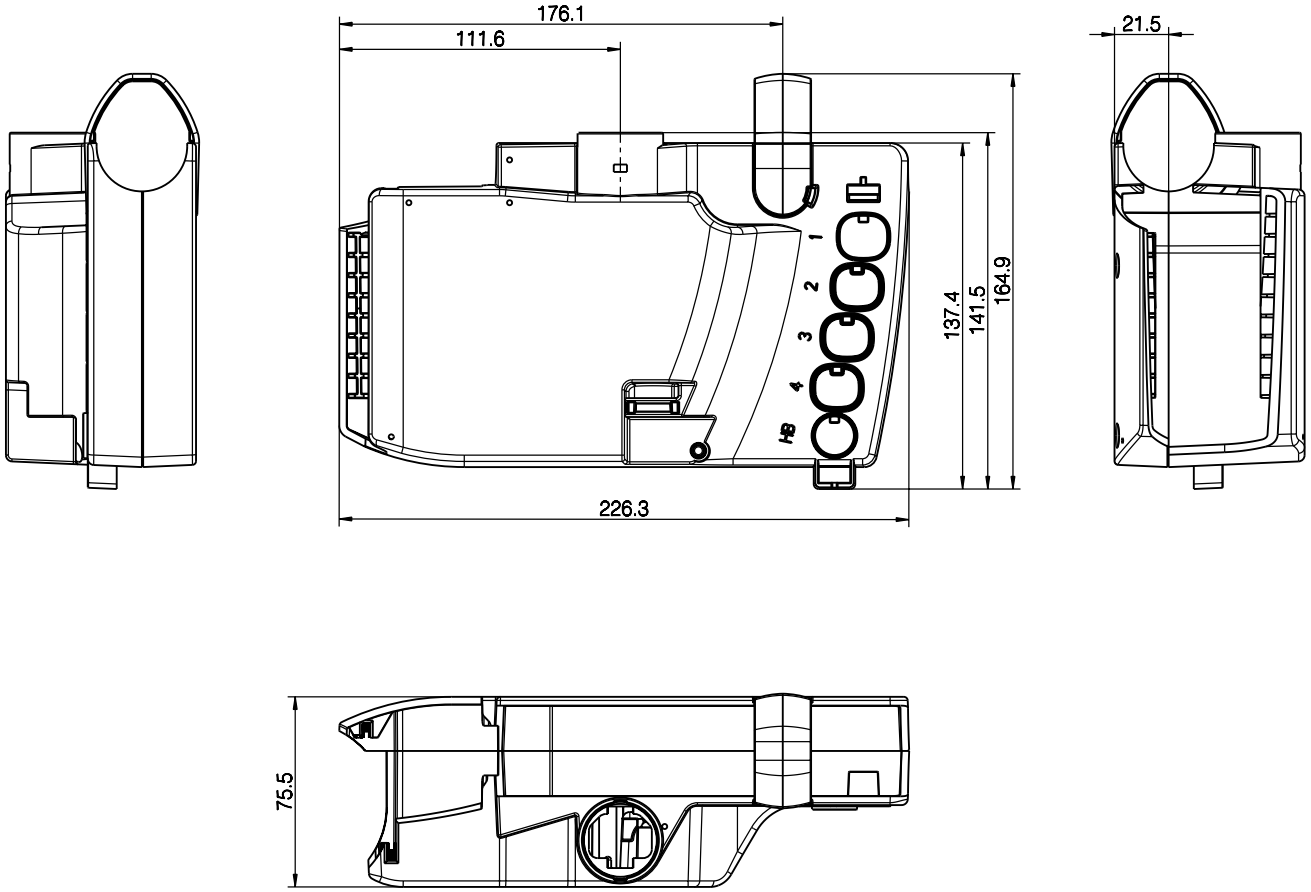
" S " is safety critical and represents a listed critical component in the product and cannot be left out.

For more information, please refer to "Approvals and certifications" in LINAK Application Design Recommendations found under User Manual for any given product on LINAK.com

System overview



Dimensions

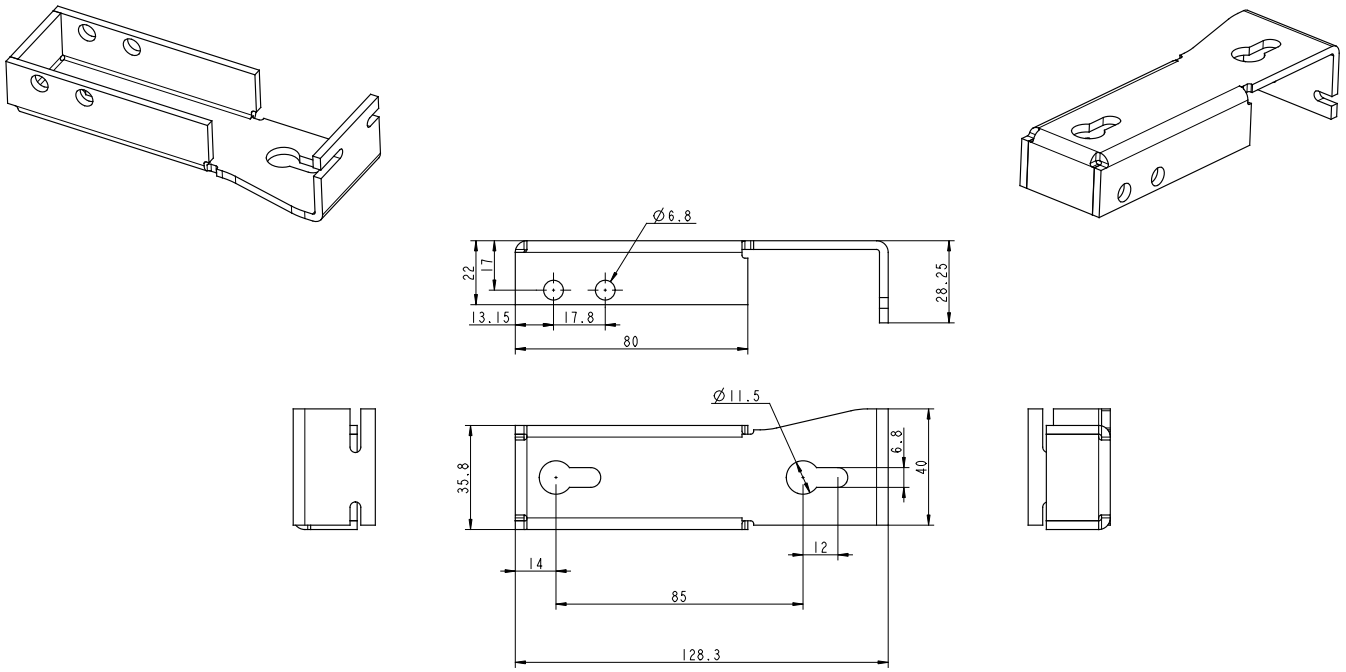


Drawing No.: 9279019

Mounting

Article no. 9271233 (galvanised) + 9271237 (iron oil)

Apart from LA27, it is not possible to mount CB6S MK2 onto LINAK actuators. In such case, you need a CB6 mounting bracket which can be welded or similar to the application. This bracket is shown below:



Drawing No.: 9271233

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