

Control Box

CB4M

CB4M control box is designed for home bed, care bed, and other furniture applications. It is able to drive up to 4 actuators, and can operate with rechargeable batteries as an option. There are three function options in this model as CB4M, CB4M-S and CB4M-B.



Features and Options

Main applications: Furniture, Home care

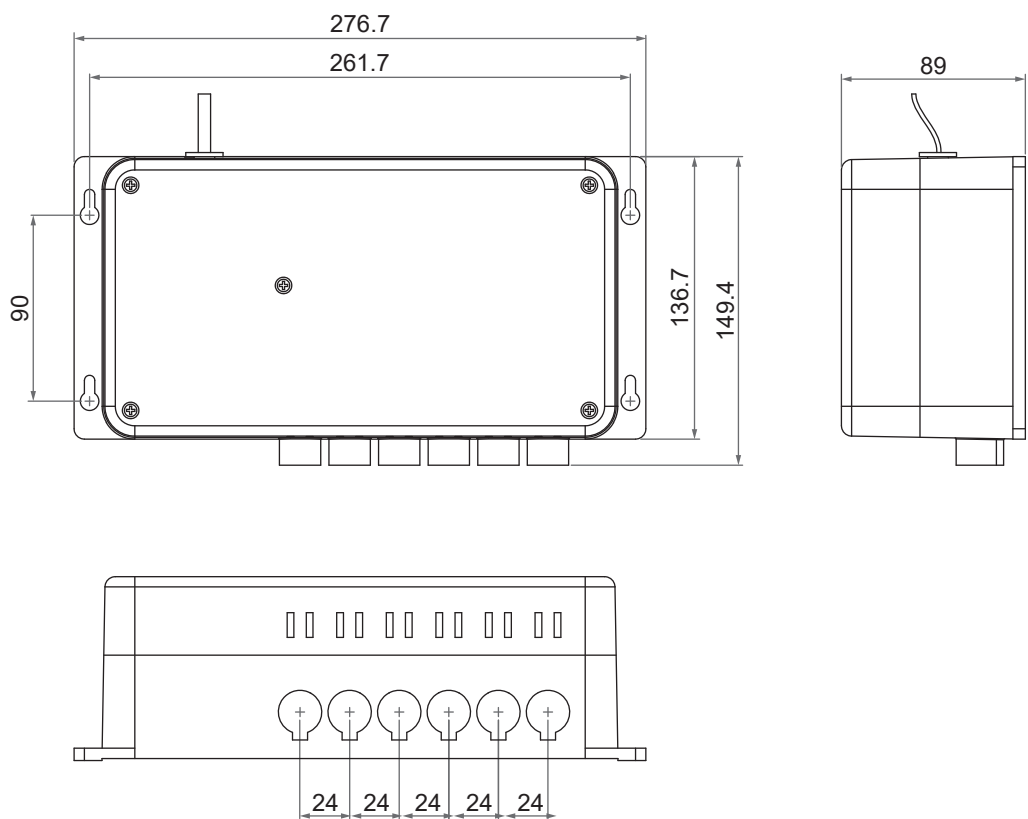
Standards features:

- Input: 110V AC 60Hz / 230V AC 50Hz (EI transformer)
- Output voltage: 24V DC
- Output rated current: 3.0A (Per channel)
- Number of actuators: 2~4 channels
- Number of controls: 1~2 channels
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Over-current protection function
- Electric shock protection level: Class I, Class II
- Color: Black
- Power cord length: 3000mm

Options:

- CB4M (Standard type): No positioning function. Built-in charger function with 1.3Ah lead-acid batteries included.
- CB4M-S (Synchronous type - Advanced): Synchronous movement for all 4 actuators. Support position display and memory function through hand control.
- CB4M-B (Synchronous type - Basic): Synchronous movement for all 3 or 4 actuators. No support to position display and memory function.

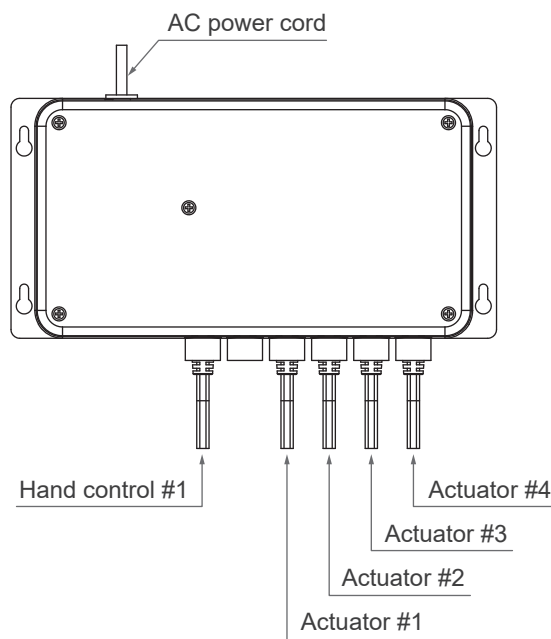
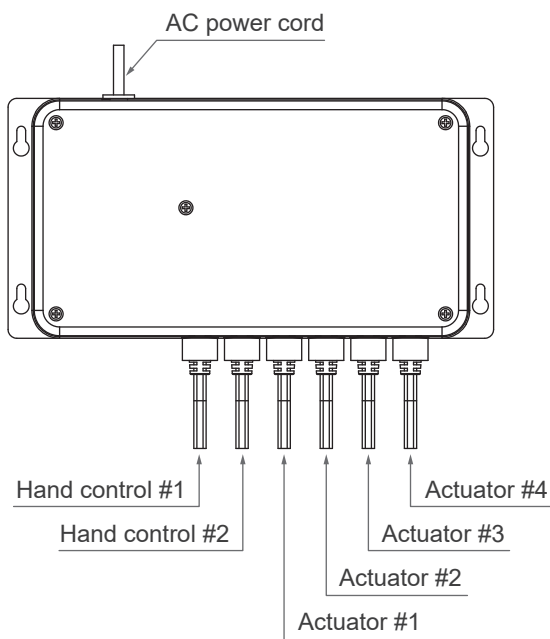
Dimensions



Unit: mm

I/O Introduction

- CB4M (Standard type)
- CB4M-S (Synchronous type - Advanced), CB4M-B (Synchronous type - Basic)



Compatibility

• Actuator

CB4M type	Actuator port	Compatible models	Compatible requirement
CB4M (Standard type)	Max. 4 channels with max. 3A current per channel	BD61, BD62, FD20, FD40, FD60, FD61, GD70, MD21, MK33	<ul style="list-style-type: none"> • Without positioning sensor • With Moteck F-type DIN plug
CB4M-S (Synchronous type - Advanced)	Max. 4 channels with max. 3A current per channel	BD61, BD62, DLC2, FD20, FD40, FD60, FD61, GD70, MD21, MK33	<ul style="list-style-type: none"> • With dual Hall effect sensors • With Moteck F-type DIN plug
CB4M-B (Synchronous type - Basic)			



notice

The feedback signal phase of dual Hall effect sensors from actuators must be “Type A” defined by Moteck in order to be compatible with CB4M-S and CB4M-B.

• Hand control

CB4M type	Control port	Compatible models	Compatible requirement
CB4M (Standard type)	Max. 2 channels	HD, HJ, HM, H2N, H3F	<ul style="list-style-type: none"> • With Moteck F-type DIN plug
CB4M-S (Synchronous type - Advanced)	Max. 1 channel	DKP3, DP07, DP08	<ul style="list-style-type: none"> • With Moteck F-type DIN plug
CB4M-B (Synchronous type - Basic)	Max. 1 channel	HR, HDU, DKP4, DP05, DP11	<ul style="list-style-type: none"> • 2 buttons • Without LED indicator • With Moteck F-type DIN plug
		HM2R	<ul style="list-style-type: none"> • With Moteck F-type DIN plug

• Wireless option

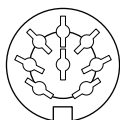
CB4M type	Compatible models	Compatible requirement
CB4M (Standard type)	TXA 2.4GHz RF adapter	<ul style="list-style-type: none"> • With Moteck F-type DIN plug

Socket

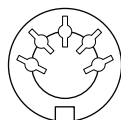
Hand control socket for Moteck F-type DIN plug

A. CB4M (Standard type)

- 3 drives model / 4 drives model
- 2 drives model



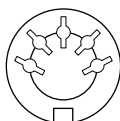
8-pin socket



5-pin socket

B. CB4M-S (Synchronous type - Advanced)

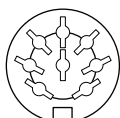
- With position memory function



5-pin socket

C. CB4M-B (Synchronous type - Basic)

- Without position memory function



8-pin socket



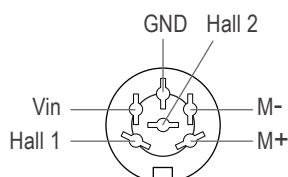
F-type plug

Actuator socket for Moteck F-type DIN plug

- Without positioning feedback sensors
- With dual Hall effect sensors



4-pin socket



6-pin socket

Note: Connect M+ to "Vdc +" & M- to "Vdc -" of DC power to extend the actuator.
Switch the polarity of DC input to retract it.

Ordering Key

CB4M (Standard type)

CB4M- 230 - 24 - 1 - 3 - CG-BA

Input	110: 110V AC 230: 230V AC
Output voltage	24: 24V DC
Number of control	1: 1 channel 2: 2 channels
Number of actuator	2: 2 actuators 3: 3 actuators 4: 4 actuators
Battery	CG: Built-in charger function only (batteries not included) CG-BA: Built-in charger function with 1.3Ah lead-acid batteries included
Option	Blank: None HC: Compatible to FD60 with crank function (Max. for 3 actuators)
Power cord	Blank: Fixed type D: Detachable AC power cord (power cord not included)

CB4M-S (Synchronous type - Advanced)

CB4M-S- 230 - 24 - 1 - 4 - 4SY

Input	110: 110V AC 230: 230V AC
Output voltage	24: 24V DC
Number of control	1: 1 channel
Number of actuator	4: 4 actuators
Option	4SY: Synchronization for 4 actuators
Power cord	Blank: Fixed type D: Detachable AC power cord (power cord not included)

Ordering Key

CB4M-B (Synchronous type - Basic)

CB4M-B- 230 - 24 - 1 - 4 - 4SY	
Input	110: 110V AC 230: 230V AC
Output voltage	24: 24V DC
Number of control	1: 1 channel
Number of actuator	3: 3 actuators 4: 4 actuators
Option	3SY: Synchronization for 3 actuators 4SY: Synchronization for 4 actuators
Power cord	Blank: Fixed type D: Detachable AC power cord (power cord not included)



More information about CB4M and CB4M-B operating guide, refer to the respective product data sheets of the control devices connected.



More information about CB4M-S usage is provided in CB4M-S User Guide, which can be downloaded from Moteck website.