

Control Box

CB3T

CB3T is compact control box designed for home bed, care bed, and other furniture applications. It is able to drive up to 3 actuators, with the optional synchronization function. There are two function options in this model as CB3T and CB3T-SY.



Features and Options

Main applications: Furniture, Home care

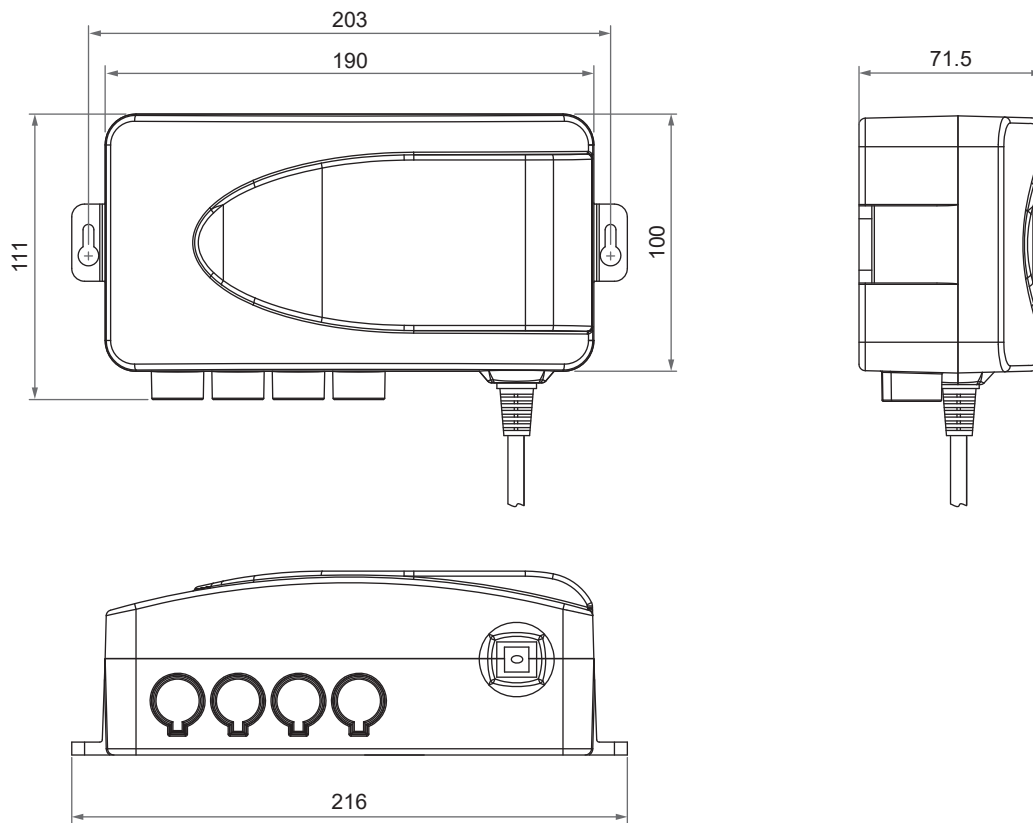
Standards features:

- Input: 120V AC 60Hz / 230V AC 50Hz (EI transformer) or 100 ~ 240V AC, 50/60Hz (SMPS)
- Output voltage: 24V DC (EI transformer), 29V DC (SMPS)
- Output rated current: 3.0A per channel for CB3T, 5.0A in total for CB3T-SY
- Max. number of actuators: 3 channels
- Max. number of controls: 1 channel
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Over-current protection function
- Color: Black
- Electric shock protection level: Class II
- Power cord length: 3000mm
- Compliant with CE Marking, EMC Directive 2014/30/EU, LVD Directive 2014/35/EU

Options:

- CB3T (Standard type): Without synchronization
- CB3T-SY (Synchronous type): Synchronous movement for 2 actuators

Dimensions



Unit: mm

I/O Introduction



Compatibility

• Actuator

CB3T type	Actuator port	Compatible models	Compatible requirement
CB3T (Standard type)	Max. 3 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
CB3T-SY (Synchronous type)	Max. 3 channels with max. 3A current per channel		<ul style="list-style-type: none"> • Dual Hall effect sensors • With Moteck F-type DIN plug • Motor speed ~6000rpm



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 CB3T.

• Hand control

CB3T type	Control port	Compatible models	Compatible requirement
CB3T (Standard type)	Max. 1 channel	HI, HJ, HM, H2N, H2Z	<ul style="list-style-type: none"> • With Moteck F-type DIN plug
CB3T-SY (Synchronous type)	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
		HM6R (With position memory keys)	<ul style="list-style-type: none"> • With Moteck F-type DIN plug

• Wireless option

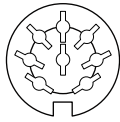
CB3T type	Compatible models	Compatible requirement
CB3T (Standard type)	TXA 2.4GHz RF adapter	<ul style="list-style-type: none"> • With Moteck F-type DIN plug

Socket

Hand control socket for Moteck F-type DIN plug

A. CB3T (Standard type)

- 3 drives model



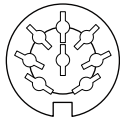
8-pin socket

- 1 drive model / 2 drives model



5-pin socket

B. CB3T-SY (Synchronous type)



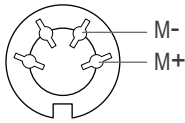
8-pin socket



F-type plug

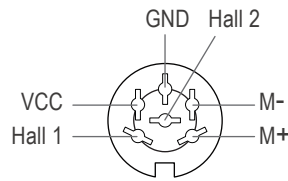
Actuator socket for Moteck F-type DIN plug

- Without positioning feedback sensors



4-pin socket

- With dual Hall effect sensors





6-pin socket

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










Operating Guide

For CB3T-SY version (with example of HM 6-key hand control):

• System learning through HM6R hand control

Press button  and  at the same time until the actuators start to move. The learning is done after both actuators move to the fully retracted position.

• Function

- ① Extend  both actuators synchronously.
- ② Retract  both actuators synchronously.
- ③ Press button  until LED operating indicator flashes slowly, and press button ,  or  to store the needed position.
The LED will flash quickly to confirm the positions is stored.
- ④ Drive both actuators toward the stored position 
- ⑤ Drive both actuators toward the stored position 
- ⑥ Drive both actuators toward the stored position 



Ordering Key

- **CB3T (Standard type)**

CB3T - 230 - 24 - 2

Input	120: 120V AC 230: 230V AC
Output voltage	24: 24V DC
Number of actuators	1: 1 channel 2: 2 channels 3: 3 channels

- **CB3T-SY (Synchronous type)**

CB3T - ISW1 - 29 - 2 - SY

Input	ISW1: Internal SMPS (100~240V AC)
Output voltage	29: 29V DC
Number of actuators	2: 2 channels
Option	SY: Synchronous version



For more information about operating guide, refer to the respective product data sheets of the control devices connected.

Terms of Use

The user is responsible for application suitability of Moteck products. As ongoing improvement process continues, products listed on the Moteck website are subject to change without prior notice. Moteck reserves the right to terminate the sales or remove any product displayed on the website, or listed in its catalogues.