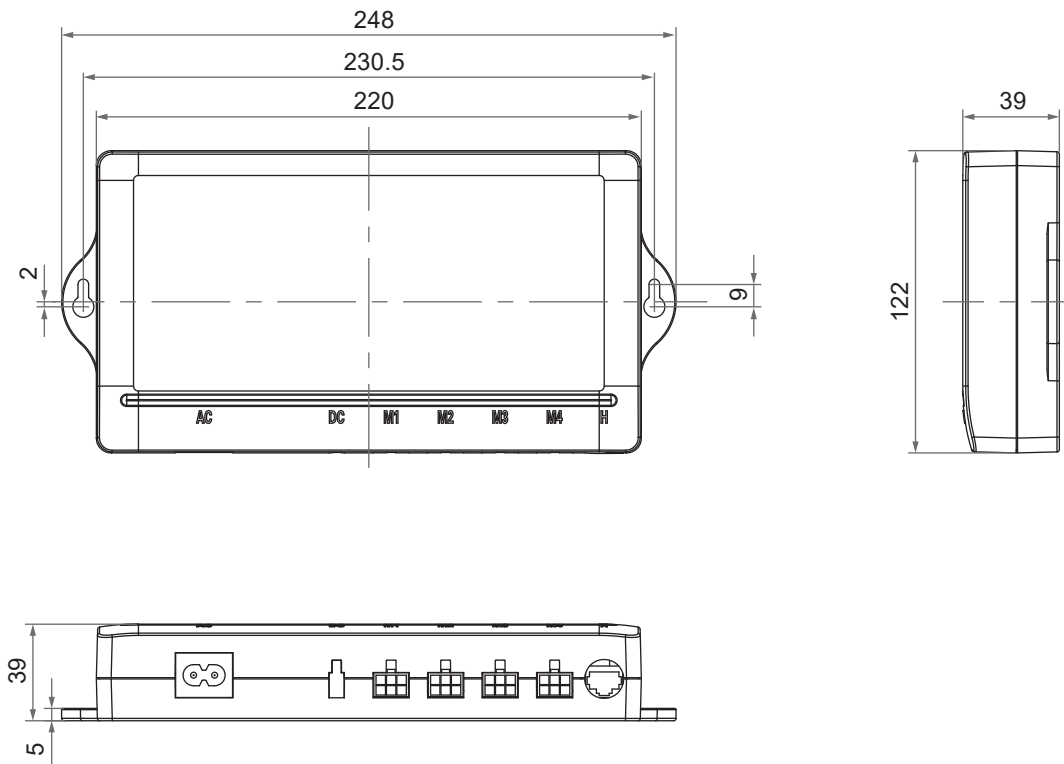**MOTECK**®
www.moteck.com

Control Box
CF12S

CF12S control box is programmed to drive 4 actuators synchronously. With internal SMPS, CF12S features lightweight and compact dimension for convenient installation. CF12S is ideal for furniture application especially it is compatible with mainstream products of Moteck actuators and handsets.

Features

- Main application: Furniture
- Input : 100 ~ 240V AC, 50/60Hz (SMPS)
- Output : 32V DC
- Power supply: Internal SMPS, 32V DC/4A (128W)
- Output rated current: 3.6A (per channel)
- Max. number of actuators: 4 channels (synchronization)
- Max. number of controls: 1 channel
- Over-current protection function
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Electric shock protection level: Class II
- Color: Black
- Power cord: Refer to *AC Power Cord*
- Position memory function
- Soft start / stop function

Dimensions

Unit: mm

I/O Introduction

H: Hand control

M4: Actuator #4

M3: Actuator #3

M2: Actuator #2

M1: Actuator #1

AC: AC power
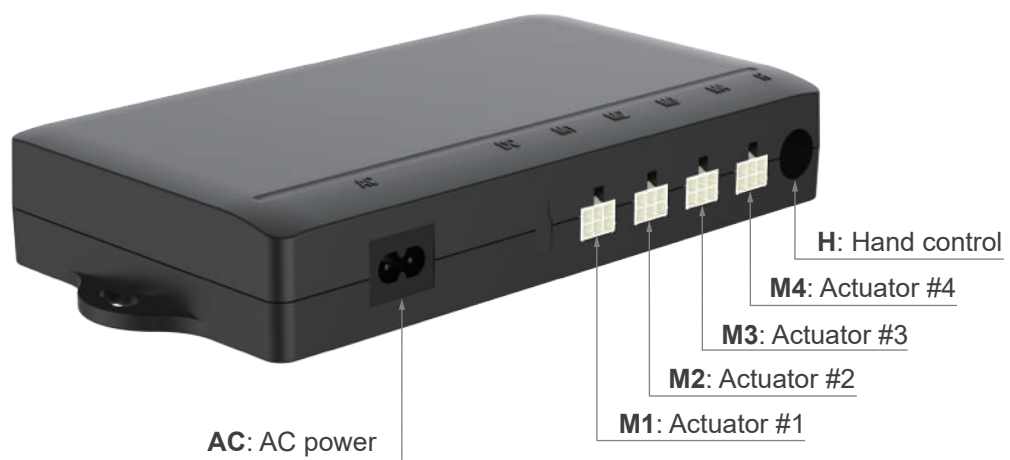
Compatibility

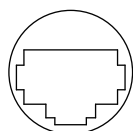| Product	Model	Compatible requirement
Actuator	BD61, BD62, FD40, FD60, FD61, GD70, MK33	• With dual Hall effect sensors • With Moteck L3-type minifit 6-pin plug
Hand control	HDU, HM, HR, HT, HTF, DKP4, DP05, DP11	• Moteck P2 control category • With Moteck E-type RJ 10-pin plug

Socket

● **Motor socket for Moteck L3-type minifit plug**

```
                    Data 1

M+ ──────┐   ┌──────── Data 2
M- ──────┘   └──────── GND

                    Vin
```

Minifit 6-pin Socket
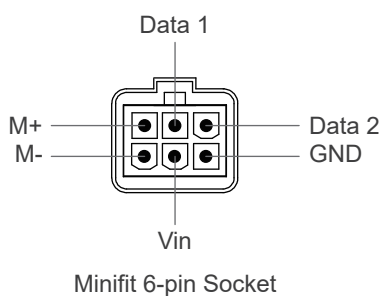
L3-type plug

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

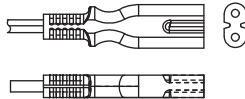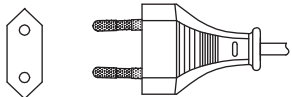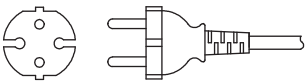● **Hand control socket for Moteck E-type RJ plug**

RJ 10-pin Socket
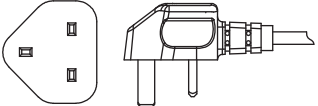
E-type plug

● **AC Power cord**

Code			
Plug type **(plug in the wall)**	**AC Power cord length**		**Connector type** **(plug in the control box)**
	2000mm straight	**3000mm straight**	
US 2-Pin Plug	**A2**	**A3**	IEC 60320 C7 type connector
EU 2-Pin Plug	**C2**	**C3**	
EU CEE 7/17(VDE) 2-Pin Plug		**V3**	
UK 3-Pin Plug		**G3**	

Operating Guide

● **Auto Stroke Learning**

After installing the entire system correctly, you need to perform Auto Stroke Learning before you start using it. Please follow the steps below (Take HM 2-key hand control as an example).

Step 1: Make sure that the power supply is connected and there are no obstacles in the moving path of the actuator.

Step 2: The Hand control presses 'UP' and 'DOWN' buttons at the same time for 3 seconds to start automatic learning. The actuator will automatically move to the lowest position, move to the highest position, and then return to the lowest position to complete automatic learning.

Remarks: If the process of system learning is interrupted, you need to perform auto learning again.

● **Operation**

1. Press and hold 'UP' button to extend 4 actuators synchronously.
2. Press and hold 'DOWN' button to retract 4 actuators synchronously.
3. The actuator stops while button is released.

Ordering Key

<div align="right">

CF12 **S** - **32** - **C** - **4** - **C3**

</div>

Function version	**S**: Function version S
Output voltage	**32**: 32V DC
Power supply	**C**: Internal SMPS, 32V DC/4A (128W)
Number of actuators	**4**: 4 channels (synchronization)
AC Power cod (Refer to Page 4)	**A2**: US 2-Pin plug, 2000mm straight **A3**: US 2-Pin plug, 3000mm straight **C2**: EU 2-Pin plug, 2000mm straight **C3**: EU 2-Pin plug, 3000mm straight **V3**: CEE 7/17(VDE) 2-Pin plug, 3000mm straight **G3**: UK 3-Pin plug, 3000mm straight **00**: Without AC Power cord