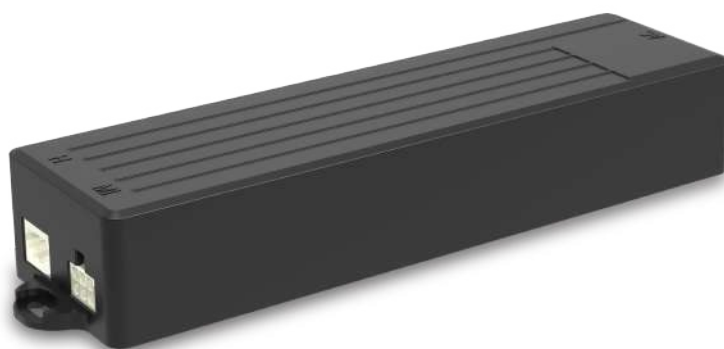


Control Box

CF13

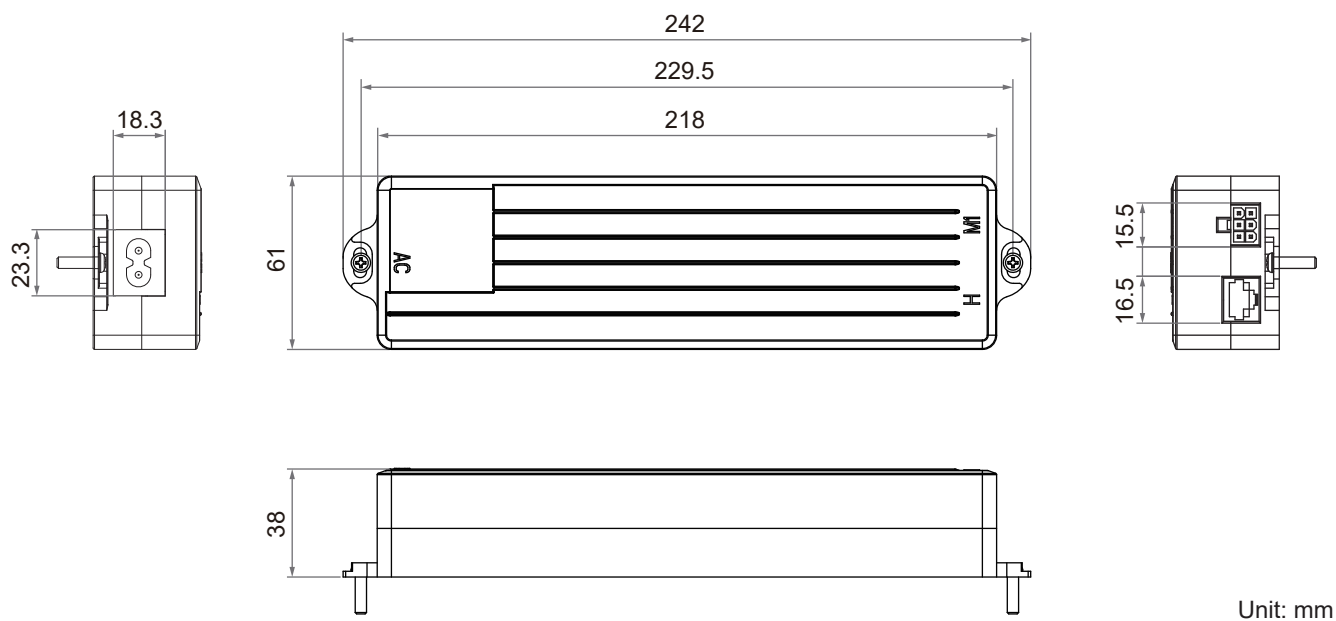
CF13 is designed for electrical lifting desk. With SMPS inside, it features lightweight and compact that requires only minimal space to be installed. CF13 supports many functions including real-time height display and position memory. Moreover, not only the advantage of soft start / stop ensures a smooth desk drive, the anti-pinch function also assures the safety consideration.



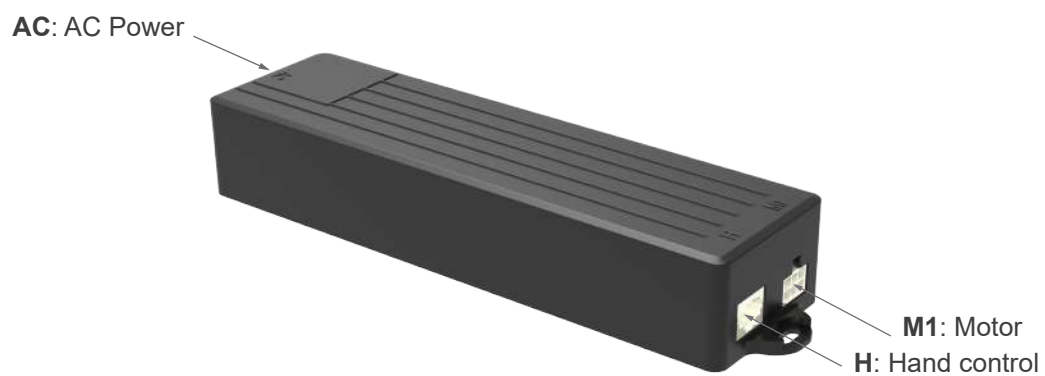
Features

- Main applications: Lifting desk, Furniture
- Input voltage: 100 ~ 240V AC, 50/60Hz (SMPS)
- Output voltage: 29V DC
- Power supply: Internal SMPS, 29V/2A (58W)
- Max. number of motor: 1 channel
- Max. number of control: 1 channel
- Over-current protection function: 4.0A
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Electric shock protection level: Class II
- Power cord: Refer to AC Power Cord
- Color: Black
- Real-time height display
- Support USB charging port on hand control
- Soft start / stop function
- Anti-pinch function
- Position memory function

Dimensions



I/O Introduction



Compatibility

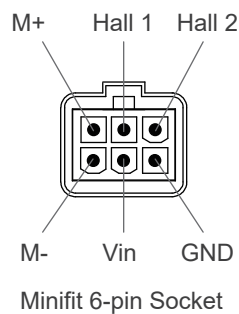
Product	Model	Compatible requirement
Motor	Lifting column: DLC2	<ul style="list-style-type: none"> • With dual Hall effect sensors for positioning • With Moteck L3-type minifit 6-pin plug
	Gear motor: DKM3, DKM4-LF	
Hand control	DKP3, DP07, DP08	<ul style="list-style-type: none"> • Moteck S2 control category • With Moteck E2-type RJ 10-pin plug
	DKP4, DP05, DP11	<ul style="list-style-type: none"> • Moteck P2 control category • With Moteck E2-type RJ 10-pin plug



To be compatible with CF13, the dual Hall effect feedback of the actuators must belong to the "A" phase type defined by MOTECK.

Socket

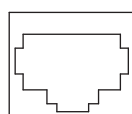
• Motor socket for Moteck L3-type minifit plug



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 E2-type RJ plug



RJ 10-pin Socket

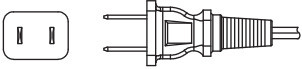
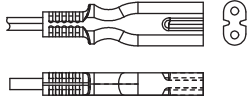
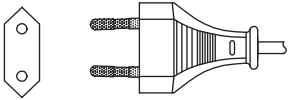
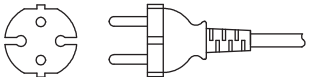
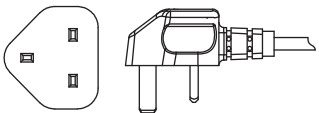


L3-type plug



E2-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 	N/A	V3	
UK 3-Pin Plug 	N/A	G3	

Learning and Operating Guide

1. 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 of button control or touch control.

- CF13 is compatible with Key control from the Moteck S2 control category
(Take DP08 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 lifting table.

Step 2: The hand control displays **SET**, press **▲** and **S** buttons at the same time for 2 seconds, **SET** flashes and starts automatic learning. The lifting table will automatically move to the lowest position, move to the highest position, and then return to the lowest position to complete automatic learning.



DP08

- CF13 is compatible with Touch control from the Moteck S2 control category
(Take DP07 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 lifting table.

Step 2: The touch hand control displays **S**, touch **S** to enter learning mode.

Step 3: Touch **▲** and **S** buttons at the same time until **-S-** is displayed, **SET** flashes and starts automatic learning. The lifting table will automatically move to the lowest position, move to the highest position, and then return to the lowest position to complete automatic learning.



DP07

- CF13 is compatible with 2-button control from the Moteck P2 control category
(Take DP11 hand control as an example)

Step 1: Make sure that the power supply is connected and there are no obstacles in the stroke.

Step 2: Press **▲** and **▼** buttons at the same time for 2 seconds, and starts 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.



DP11

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

2. Calibrating the Height

When the height display is blinking, it means the height display needs to be recalibrated.

The possible causes are as follows:

- Sudden power interruption during lifting movement
- When the system detects an error in the table height. Please follow the steps below.

Step 1: Make sure there are no obstacles in the moving path of the lifting table

Step 2: While the height display is blinking, press button **▼**, and the lifting table will automatically move to the lowest position to complete the calibration.

3. Error Code Summary

Error Code	Information	Recommended Disposition
<i>H0t</i>	Overheat-System detects the action exceeding the rated duty cycle and prevents it from overheating.	Stop operating until error code is called off automatically.
<i>E 16</i>	Block: System detects a sudden resistance like pinch during moving.	Check carefully to ensure nothing blocked the way before continue operating. Remove it if found.
<i>EO1</i>	Overload: System detects excessive weight arrangement not following the rated capacity.	Do not exceed the max. load of actuator.



For more information about the Hand control operation guide, please refer to the corresponding product data sheet, which can be downloaded from the MOTECK website.

Ordering Key

		CF13 D - 29 - A - 1 - C3				
Function version	D: Function version D					
Output voltage	29: 29V DC					
Power supply	A: Internal SMPS, 29V DC/2A (58W)					
Number of motor	1: 1 channel					
Plug (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					