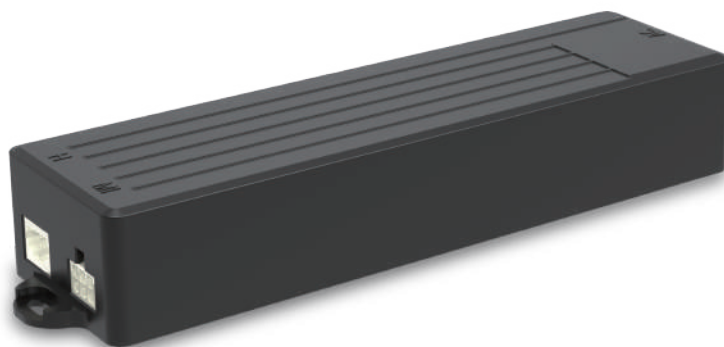


Control Box

CF13

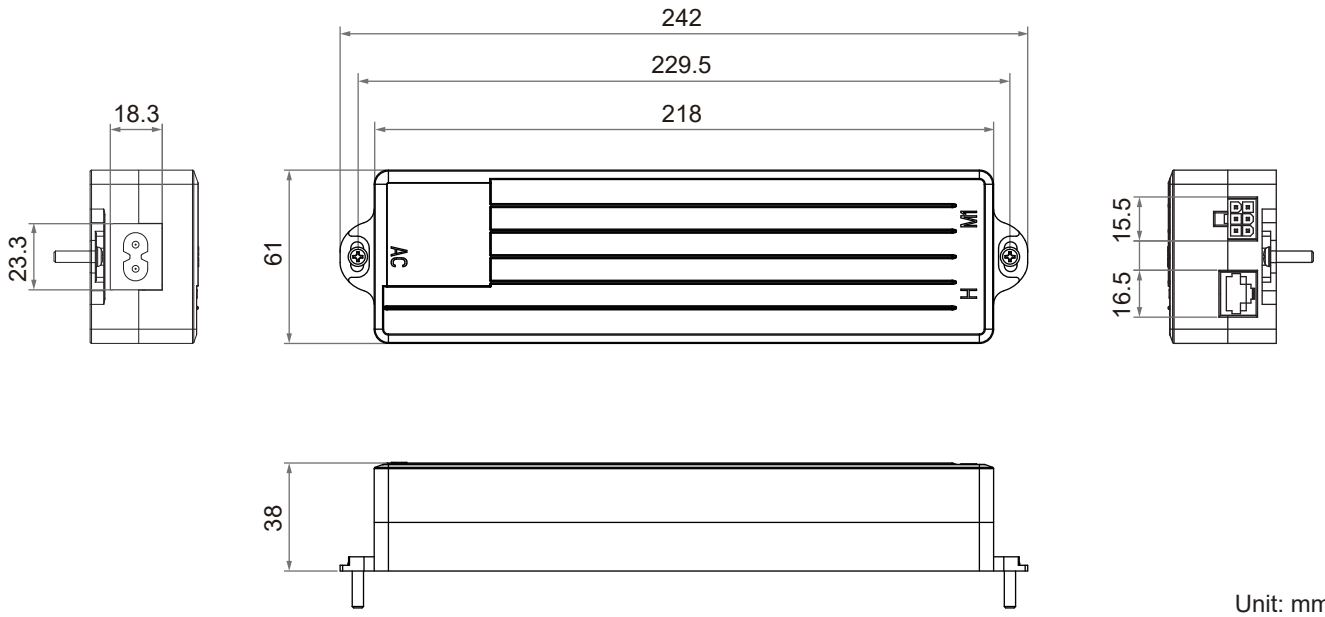
CF13 is designed for electrical lifting desk. With SMPS inside, it features lightweight and compact that requires only minimal space to be installed. CF13 supports many functions including real-time height display and position memory. Moreover, not only the advantage of soft start / stop ensures a smooth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



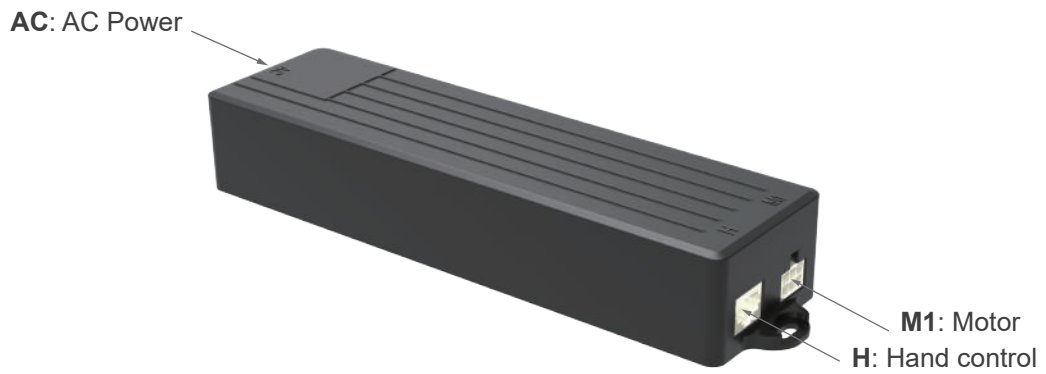
Features

- Main applications: Height adjustable 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
- Overload protection current: 4A
- 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
Lifting column	DLC2	<ul style="list-style-type: none"> Positioning feedback sensors with dual Hall effect sensors With Moteck L3-type minifit 6-pin plug
Gear motor	DKM3, DKM4-LF, GM01	
Hand control	DKP3, DP07, DP08, DP09	<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

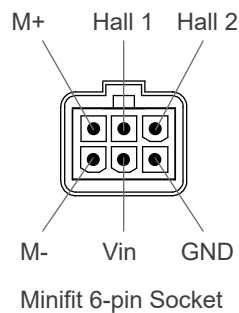


notice

The feedback signal phase of actuator's dual Hall effect sensors must be "Type A" defined by MOTECK to be compatible with CF13.

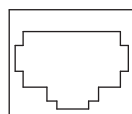
Socket

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

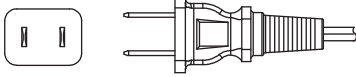

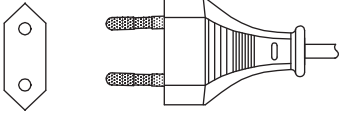

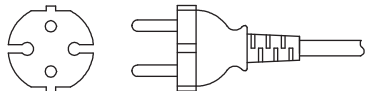
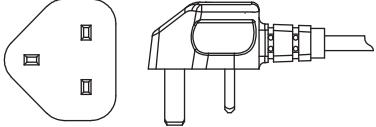


L3-type



E2-type

AC Power cord

Plug type	Note
<p>US Plug</p> 	<ul style="list-style-type: none"> • AC power cord length: 2000mm or 3000mm straight • IEC 60320 C7 type connector 
<p>EU Plug</p> 	
<p>CEE 7/17(VDE 2P) Plug</p> 	
<p>UK Plug</p> 	

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 of button control or touch control.

- Key control (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.

- Touch control (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.

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

• 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.

• Error Code Summary

Error code	Information	Recommended disposition
H0t	Overheat-System detects the action exceeding the rated duty cycle and prevents it from overheating.	Stop operating until error code is called off automatically.
E 16	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.
E01	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 plug, 2000mm straight A3: US plug, 3000mm straight C2: EU plug, 2000mm straight C3: EU plug, 3000mm straight G3: UK plug, 3000mm straight V3: CEE 7/17(VDE) plug, 3000mm straight 00: Without AC Power cord

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