

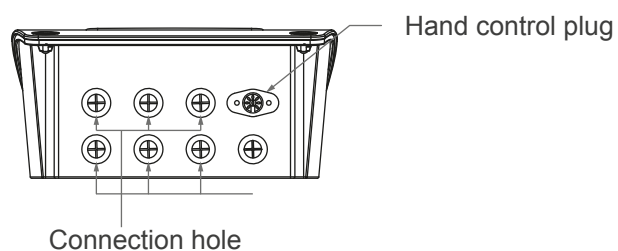
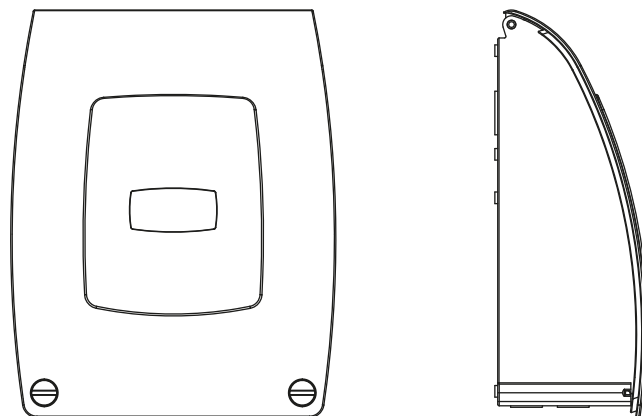
# CIS1 Control Box



## Specification

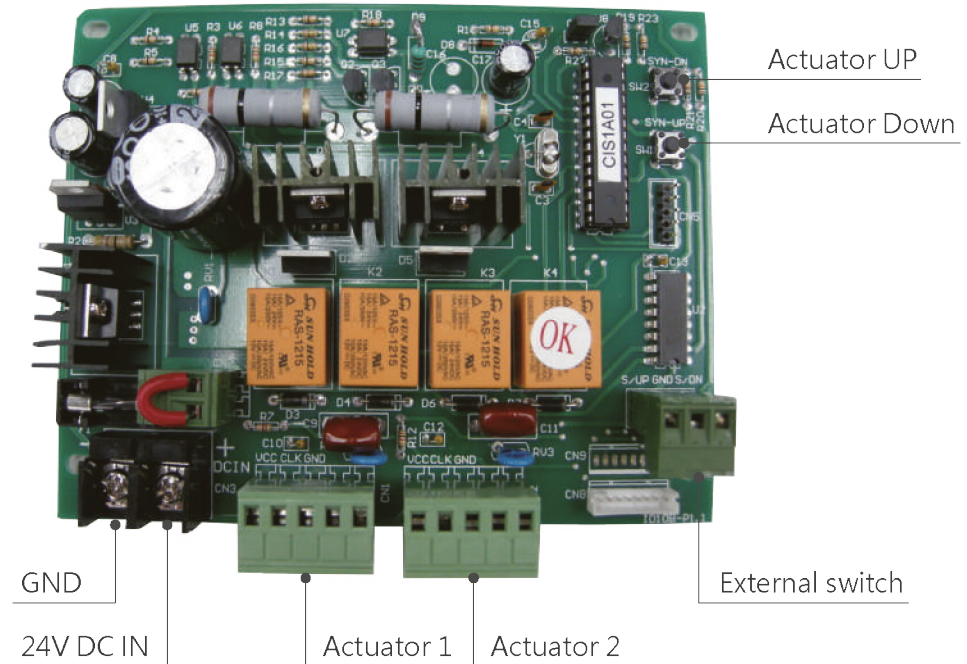
- Input voltage: 24V DC
- Output voltage: 24V DC
- Max. current: 7.5A per channel
- Max. number of actuators: 2 channels
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.

## I/O introduction



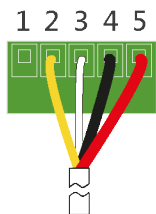
## Connection diagram

### PCBA:



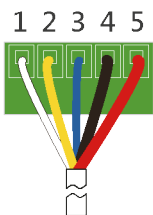
### Actuator:

1. With reed sensor feedback (example of ID10S actuator)



	Signal			Power	
Pin	1	2	3	4	5
Definition	N/A	DATA	GND	M-	M+
Wires color	N/A	Yellow	White	Black	Red

2. With single Hall effect sensor feedback (example of ID10 or ID10S actuators)



	Signal			Power	
Pin	1	2	3	4	5
Definition	VCC	DATA	GND	M-	M+
Wires color	White	Yellow	Blue	Black	Red

### Remarks:

Wires color definition may be different from each actuator model; please refer to data sheet of each actuator for details.



### Precautions:

1. The electrical installation of actuators must be completed first, and then the system learning must be completed before the actuators can be installed on the frame, otherwise damage may occur because the system is not synchronized.
2. When the system learning is in progress, the front connectors of the two actuators must be pinned to prevent their rotation, but the individual linear movement of the actuators must not be restricted. The two actuators must learn without load, and there must be no interference between them.
3. Hand controls compatible with the CIS1 control box have similar operation methods and key function definitions. HM-6R hand control is used here as an example.
4. In the course of use after successful installation, if there is a clutch tripping of actuators (not all Moteck actuators are equipped with a clutch), the CIS1 control system will automatically stop the actuators within one second. As long as the abnormal obstacles or other reasons that cause the trip are checked and eliminated, at this time, the system can be restored to good synchronization conditions by operating the retract function first.
5. If you cannot restore the system's good synchronization in the above way, please remove the actuators from the frame and restart the system learning.
6. If re-learning still fails to restore the system to a good synchronization function, please contact Moteck sales staff to provide further services.

### Electrical Installation:

1. Open the lid of the CIS1 control box, thread the cables of actuator 1 and actuator 2 through the hole in the control box, and lock them to the terminal according to the wire sequence described on the previous page.
2. Pass in the 24V DC power cable through the cable hole of the control box, connect and lock it to the terminal, and close the lid.
3. Connect the plug of the hand control, the electrical installation is complete, and the DC power supply can be turned on.

### System Learning:

1. The method described in Precaution must be used to prevent the inner tubes of actuators from rotating during the learning process.
2. Press the  $\approx$  and  $\approx$  buttons of the hand control at the same time until the actuators start to move, then release the buttons.
3. The two actuators are retracted to the bottom at the same time at the same time. During the process, the speed of the two actuators may be inconsistent. This is normal. Do not apply external force to the actuators. Then the two actuators started to extend to the end synchronously, and then retracted to the bottom again, and stopped automatically, completing the system learning.
4. During the system learning process, the push rod should not be overloaded or the clutch tripped. If this happens, please remove obstacles and other reasons before re-learning the system.
5. After completing the system learning, you can turn off the power and carefully mount the actuators on the frame to start using it.

### Operation Method:

1. Extend  $\approx$  both actuators synchronously.
2. Retract  $\approx$  both actuators synchronously.
3. Press button **S** until LED indicator flashes slowly, and press button **1**, **2** or **3** to save as preferred position number. The LED will flash quickly to confirm the position is saved.
4. Drive both actuators toward the memorized position **1**.
5. Drive both actuators toward the memorized position **2**.
6. Drive both actuators toward the memorized position **3**.



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