

RFID Control Box CF02

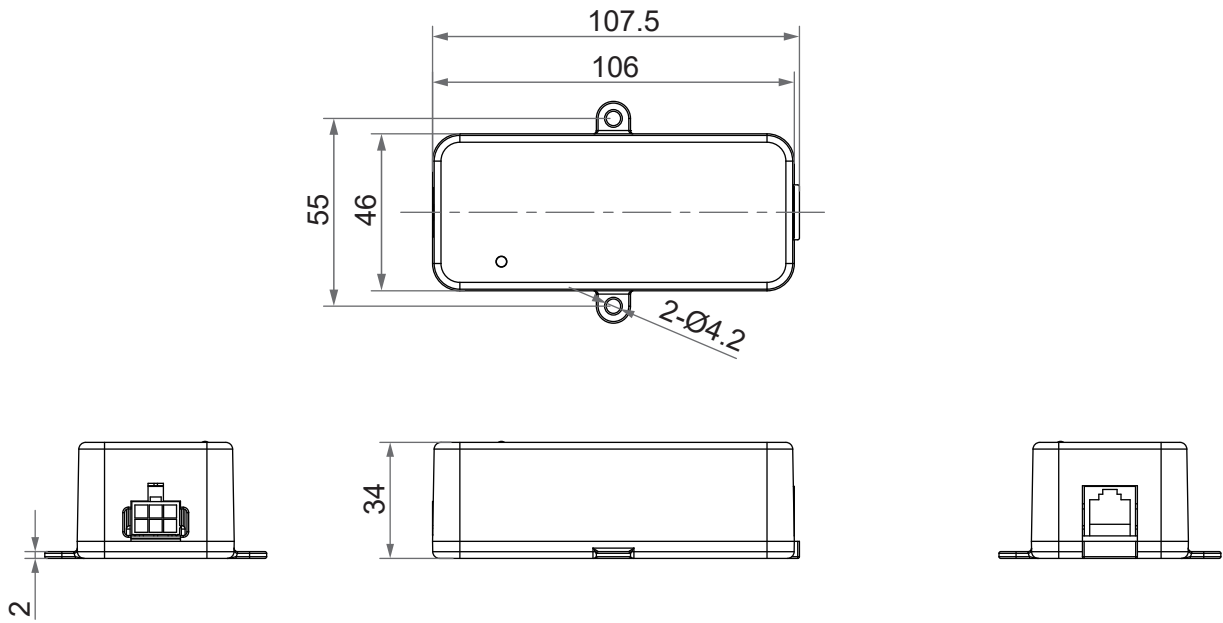


CF02 is an RFID control box that uses 125kHz RFID sensing to extend and retract the actuator, making it easy to operate. CF02 can be directly connected to actuators and power supply to support up to two actuators in joint movement. Furthermore, a second CF02 unit can be connected to extend the sensing position of the RFID card, increasing operational convenience.

Features

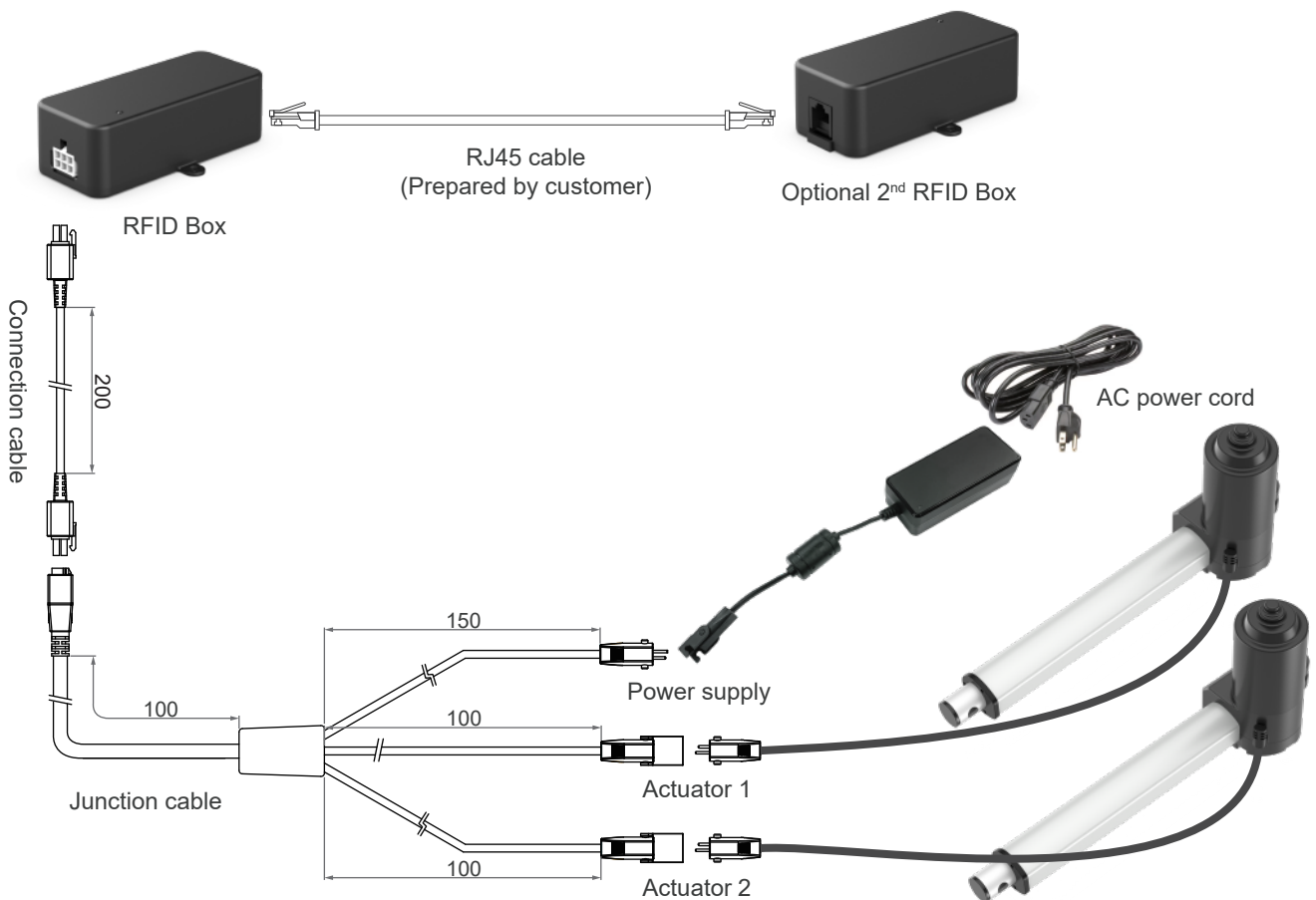
- Main application: Hotel room cleaning staff raised the bed to make it easier to clean underneath
- Power supply not included; input and output voltage 29V DC.
- Operating indicator (green)
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Color: Black
- Power supply: Powered by an external switching power supply, connected via the included cables.
- Control one actuator, or two actuators to move simultaneously.
- A second control box can be connected to simply expand the card's sensing location. It connects to the main control box via an RJ45 network cable (Prepared by customer)
- Uses 125kHz RFID sensor cards for contactless operation. Each batch of CF02 control boxes can only be operated with the same RFID card ID (RFID cards must be purchased in a separate order). Unless otherwise specified by the customer, each batch of CF02 control box orders will be automatically assigned a new and unique valid ID, meaning that different batches of CF02 must use valid cards with different IDs.
- Overcurrent protection
- Operation feedback with buzzer
- Detachable cable set
- Cable length: 2200mm straight

Dimensions



Unit: mm

System Wiring Diagram

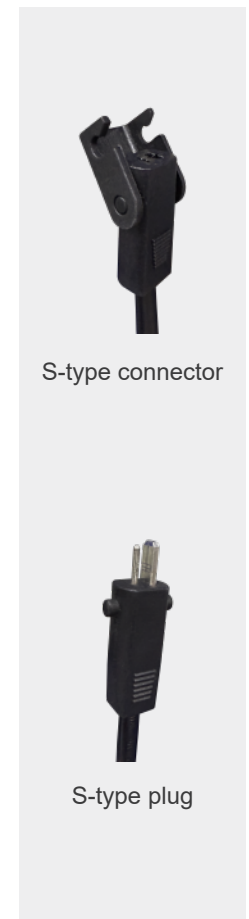
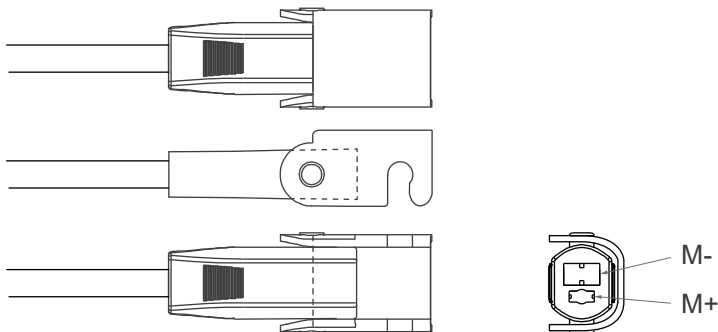


Compatibility

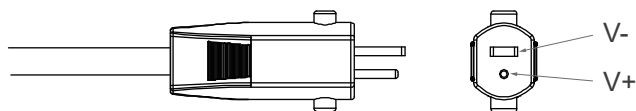
Product	Model	Compatible requirement
Actuator	FD60, FD61, MK33	<ul style="list-style-type: none"> • Without positioning sensor • With Moteck S-type DIN 41529 2-pin male plug
Power adapter	DPA-72-2430-C6 DPA-58-2920-C8 DPA-87-2930-C8	<ul style="list-style-type: none"> • With Moteck S-type DIN 41529 2-pin female plug

Plug Type

- Actuator socket: Moteck S-type DIN 41529 female connector



- Power supply plug: Moteck S-type DIN 41529 male plug



Operation Guide

1. General Operation

- (1) In the "stop" state, it takes 0 to 2 seconds of RFID card reading to switch to the "moving" state.
- (2) It automatically switches to "stop" after 30 seconds from the start of "moving".
- (3) The definition of the moving direction is swapped each time it is activated from the "stop" state.
- (4) When the actuators are in motion, sensing the RFID card will cause them to stop moving immediately.

2. Card Validity

- (1) The system is delivered with valid cards and these are the only cards that can be used to start the motor.
- (2) If CF02 is sensed with an invalid card, it will not perform any operation on the card except to emit a "Invalid Card" beep (On long beep).



Fig. RFID sensor card

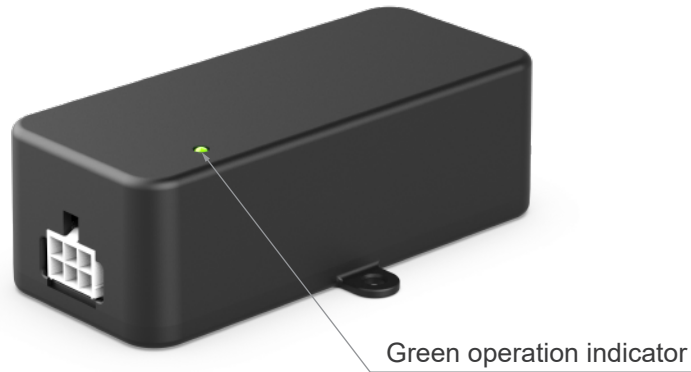
3. Main Controller

- (1) "Main Controller" means the controller directly connected to and controlling the motors of the bed.
- (2) There must always be a main controller in the system, with or without the addition of a secondary controller that does not control the motor.
- (3) After the controller is powered on, it will emit one short beep, indicating that the startup is successful. The motor will not have any action. This means that when power is first applied, the motor will be at rest mode.
- (4) The actuator will always start in extending the first time a valid card is read. If the actuator is already extended to the end when the main controller starts, no motion will be observed after the read.
- (5) A valid card read will be indicated by two short beeps. A read of an invalid card will be indicated by a long beep.

4. Secondary Controller

- (1) A "secondary controller" refers to a controller that is connected to the main controller via a network cable.
- (2) The controller itself does not distinguish between main and secondary when it is delivered, it is determined by the installation and wiring.
- (3) Use of secondary controllers is optional. The secondary controller is never directly connected to the motor.
- (4) The secondary controller is powered by the RJ-45 network cable. When the system powers up, the secondary controller emits one short beep to indicate a successful boot.
- (5) Any valid card read on the secondary controller will be treated as a valid card read on the main controller and the motors will be operated accordingly.

5. Indicator & Buzzer Definition



Status	Operation indicator	Buzzer behavior	Description
Authorization successful	Indicator lights on	Two short beeps	Card ID successfully recognized
Authorization failed	Indicator lights on	One long beep	Card ID not valid
Main board power on	Stays on for 1 sec.	One short beep	Power on successful
Sub board power on	Stays on for 1 sec.	One short beeps	Power on successful

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