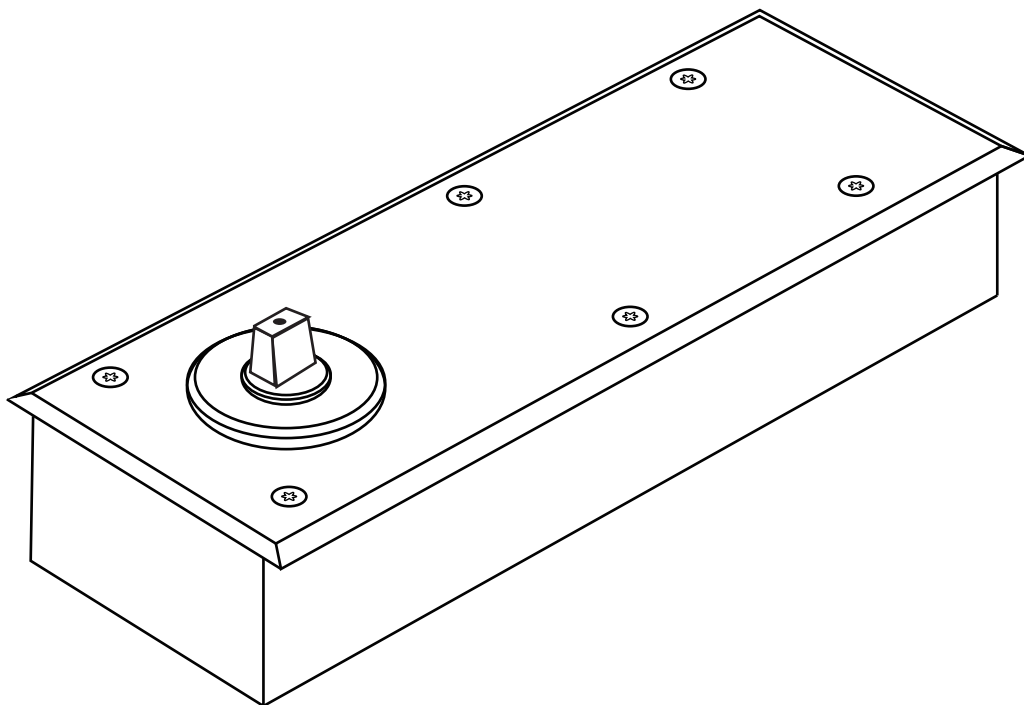


CUMU

INSTALLATION MANUAL

CMD-180S



BURIED TYPE AUTOMATIC SWING DOOR

CUMU AUTOMATIC DOOR (CHANGZHOU) CO., LTD.

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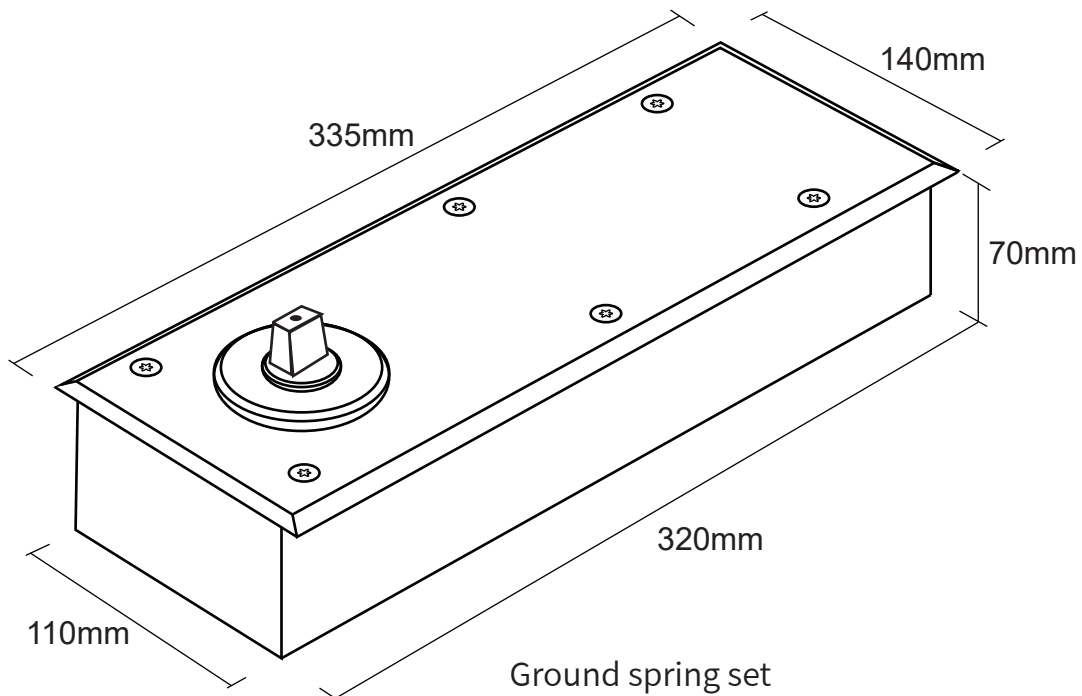
01.Operating instruction and safety notices

- Please read the installation debugging instruction carefully before use this product and follow the related safety standards.
- Need confirm the set and controller no damage appearance before installation.
- This product should connect the reliable grounding wire and constructed by the professional electric engineering staffs.
- The power supply should be cut off status before wiring, otherwise, it' s dangerous at electric shock!
- Confirm whether voltage and frequency are in accordance with the equipment requirements before connect power supply, check whether wiring terminal are firm, whether wiring electric circuit and position are correct.
- The controller elements can' t be touched by hands after connected power, otherwise, it' s dangerous at electric shock, should cut off the power supply first when installing and maintaining, wear the gloves well then process operation.
- The manufacturer will not duty for any liabilities for the result which caused by incorrect installation, operation and non-safety use environment.

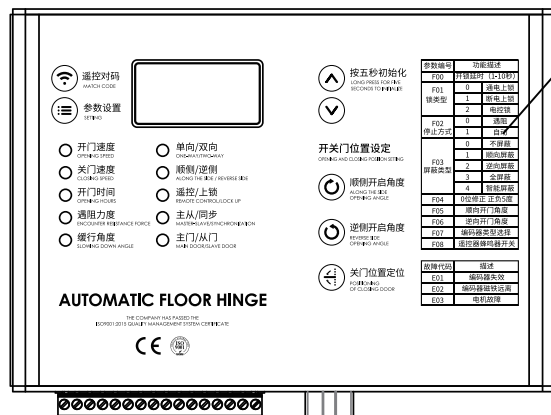
02.Product instruction

The unit utilizes the output shaft of the unit to drive the rotating arm to achieve automatic operation

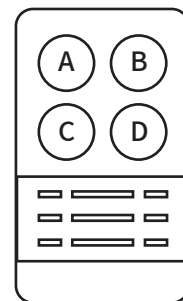
The operation of the door body can be applied both indoors and outdoors.



NUMBER	FUNCTION DESCRIPTION
F00	UNLOCK DELAY (1-10S)
F01	LOCK ON POWER
F01	LOCK TYPE
F02	STOP MODE
F03	SHIELDING TYPE
F04	STOP CORRECTION PRESSURE
F05	STOP CORRECTION PRESSURE
F06	STOP CORRECTION PRESSURE
F07	STOP CORRECTION PRESSURE
F08	STOP CORRECTION PRESSURE
F09	STOP CORRECTION PRESSURE
F10	STOP CORRECTION PRESSURE
F11	STOP CORRECTION PRESSURE
F12	STOP CORRECTION PRESSURE
F13	STOP CORRECTION PRESSURE
F14	STOP CORRECTION PRESSURE
F15	STOP CORRECTION PRESSURE
F16	STOP CORRECTION PRESSURE
F17	STOP CORRECTION PRESSURE
F18	STOP CORRECTION PRESSURE
F19	STOP CORRECTION PRESSURE
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F31	STOP CORRECTION PRESSURE
F32	STOP CORRECTION PRESSURE
F33	STOP CORRECTION PRESSURE
F34	STOP CORRECTION PRESSURE
F35	STOP CORRECTION PRESSURE
F36	STOP CORRECTION PRESSURE
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F94	STOP CORRECTION PRESSURE
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F97	STOP CORRECTION PRESSURE
F98	STOP CORRECTION PRESSURE
F99	STOP CORRECTION PRESSURE

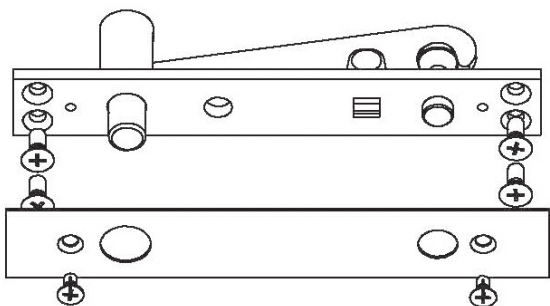


Controller

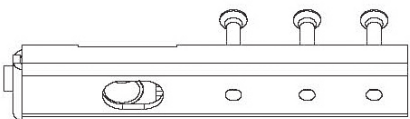


Remote controller

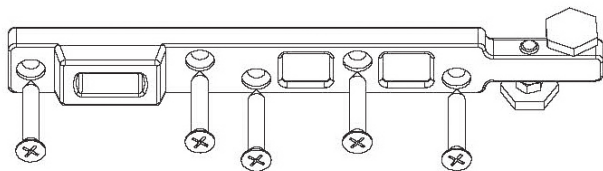
Installation fittings



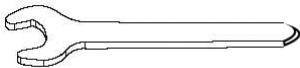
Up fitting of support



Down fitting of support



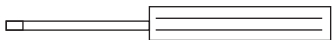
Rotating arm rod



Spanner



Flow type inner hexagon spanner



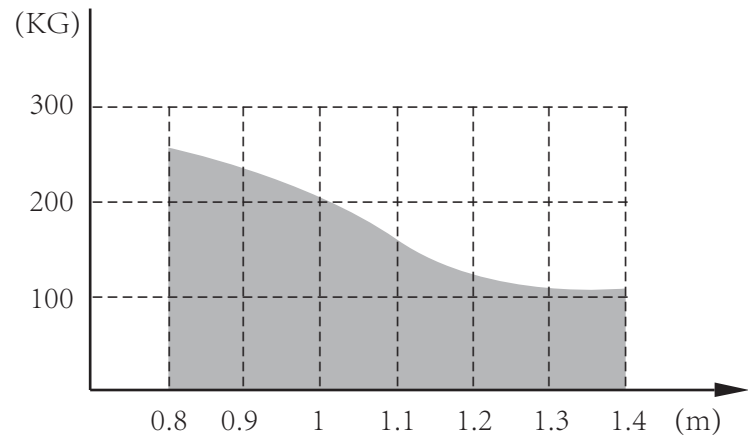
Straight screw driver

03. Technical parameters

Door weight (KG)

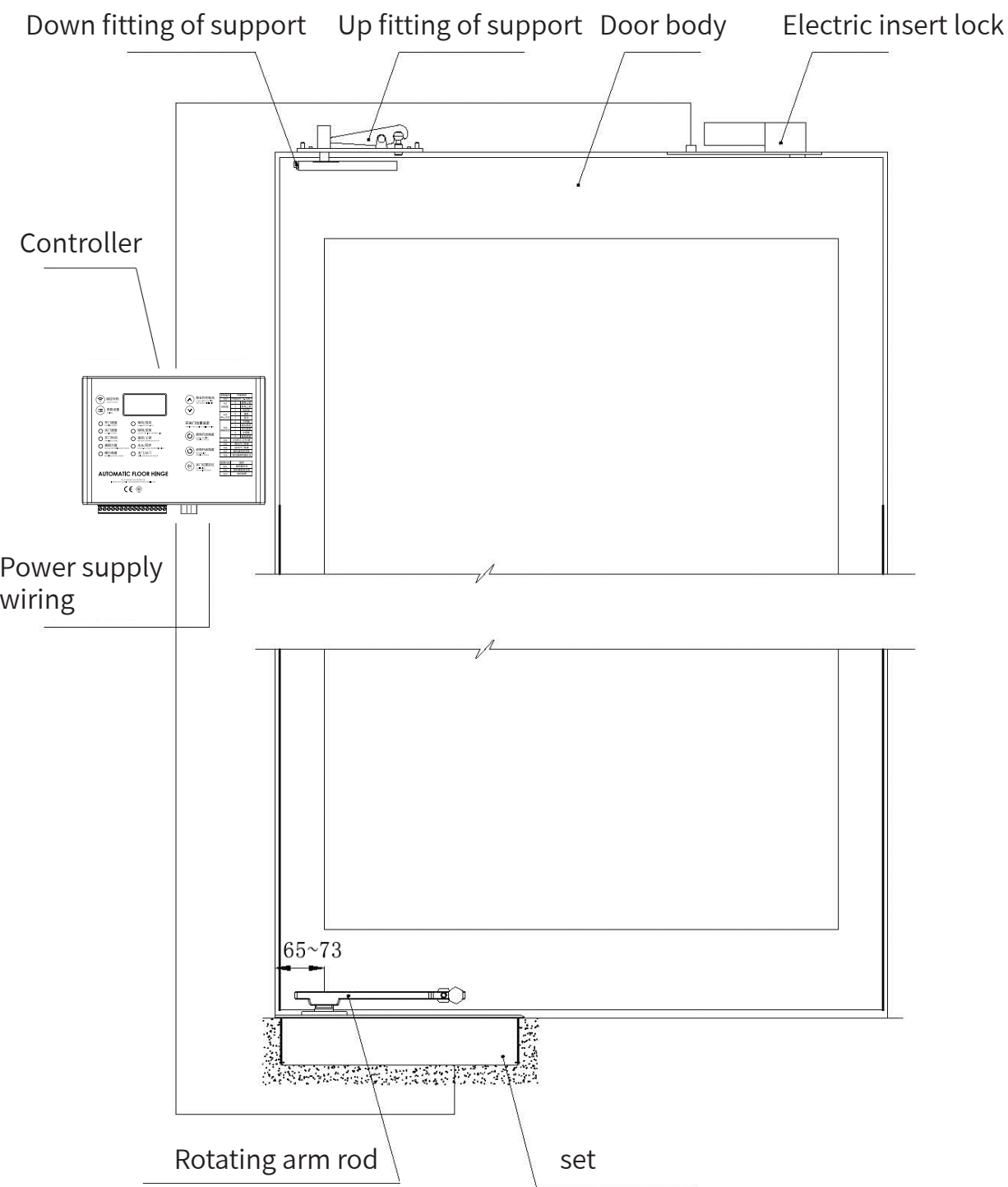
Door width (m)

Suitable atmosphere



The max door weight	200kg
The max door width	1200mm
The max torque	165Nm
Set weight	5.5kg
Installation method	Ground buried
Noise	<60dB
Electric lock output	DC12V normally open/normally close contactor
Open-close time	6-12S
Start range	86°-175°
Power supply	AC220V±10% 50.60Hz
Rated power	55w
Standby time	<2W
Working temperature	-20°C to 55°C
Protection grade	IP68 (Only limit at motor)
Set size	320×110×70(mm)
Control cabinet size	160×116×50(mm)

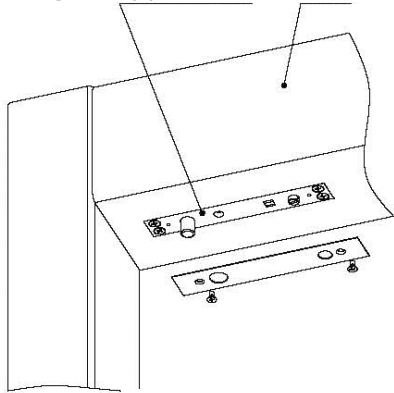
04. Automatic door installation diagram



05.Installation process

1. Confirmed the installation position well, produce the corresponding side slot on the ground according to set size, wire lay out according to requirements.
2. Connect the set output wire, controller and electric insert lock to do power on test before fix the set.
3. Install the up fitting of support (Picture a) on the cross beam, install the down fitting of support (Picture b) and rotating arm rod (Picture c) on the corresponding position of door leaf.
4. Install the door leaf after set fix position, adjust the opposite position between door leaf and door frame well through the adjustment screw of set and support, fix the set well through casting the concrete or tighten support (Picture d)

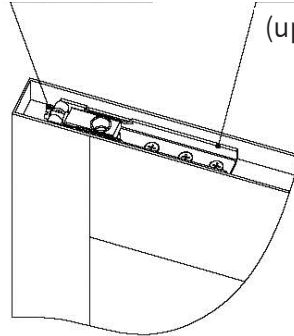
Up fitting of support Cross beam



(Picture a)

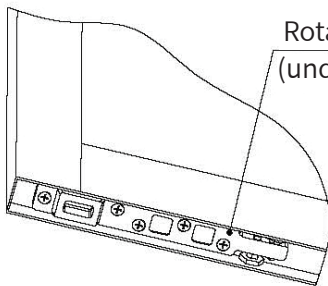
Support adjustment screw

Down fitting of support
(up of door leaf)



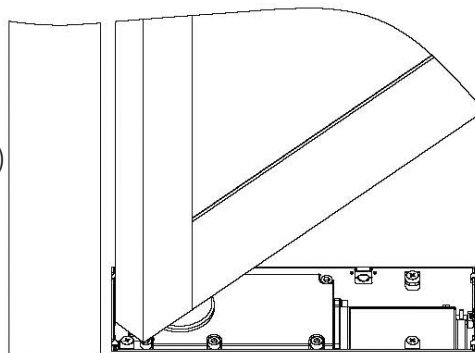
(Picture b)

Rotating arm rod
(under the door leaf)



(Picture c)

Set adjustment screw



(Picture d)

06.Introduction to the control interface

(Note: button operation can be set when the door is stopped)

The diagram shows the main control interface of the Automatic Floor Hinge. It includes a digital display tube, a 'Parameter Setting' button (three horizontal lines), and several function buttons: 'Remote Code' (Wi-Fi icon), 'Open/Close Speed' (circular arrow), 'Open/Close Time' (circular arrow), 'Resistance Force' (circular arrow), 'Deceleration Angle' (circular arrow), 'One-Way/Two-Way' (circular arrow), 'Forward/Reverse' (circular arrow), 'Remote Control Lock Up' (circular arrow), 'Master/Slave Synchronization' (circular arrow), 'Main Door/Slave Door' (circular arrow), 'Initial Setting' (up arrow), 'Position Setting' (circular arrow), 'Forward Opening Angle' (circular arrow), 'Reverse Opening Angle' (circular arrow), and 'Positioning' (down arrow). Below the buttons are two tables: 'Parameter List' and 'Fault Codes'.

参数编号	功能描述
F00	开锁延时 (1-10秒)
F01	锁类型
F02	停止方式
F03	屏蔽类型
F04	0位修正 正负5度
F05	顺向开门角度
F06	逆向开门角度
F07	编码器类型选择
F08	遥控解锁钩键开关

故障代码	描述
E01	编码器失效
E02	编码器磁铁远离
E03	电机故障

NUMBER	FUNCTION DESCRIPTION	
F00	UNLOCK DELAY (1-10S)	
F01 LOCK TYPE	0	LOCK ON POWER
	1	POWER OFF AND LOCK
	2	ELECTRIC CONTROL LOCK
F02 STOP MODE	0	RESISTANCE
	1	AUTOMATIC
F03 SHIELDING TYPE	0	UNSHIELDED
	1	FORWARD SHIELDING
	2	REVERSE SHIELDING
	3	FULLY SHIELDED
F04	4	INTELLIGENT SHIELDING
	0 BIT CORRECTION PLUS OR MINUS 5 DEGREES	
F05	CLOCKWISE OPENING ANGLE	
F06	REVERSE DOOR OPENING ANGLE	
F07	ENCODER TYPE SELECTION	
F08	REMOTE CONTROL BUZZER SWITCH	

FAULT CODES	DESCRIBE
E01	ENCODER FAILURE
E02	ENCODER MAGNET AWAY
E03	MOTOR FAULT

06-1. "Parameter setting" button

In standby mode ("---"), short press "Parameter setting" button

button to enter the common parameter setting mode. Set the parameters below the

digital tube, adjust the parameters with the "up" " and " down " arrow buttons.

When the parameter adjustment is complete, press and hold

the "parameter setting" button to finish the setting.

Parameter name	Parameter range	Description
Opening speed	1-10	Opening speed adjustable in 10 steps
Closing speed	1-10	10 adjustable closing speeds
Opening hours	1-30	Door opening holding time, in seconds
Encounter resistance force	1-5	Five adjustable levels of encounter resistance force
Slowing down angle	10-60	Slowing down angle for opening and closing doors
One way/ Two way	0/1	0 One way, 1 Two way
Along the side/reverse side	0/1	0 opening the door along the side, 1 opening reverse side
Remote control/locking	0/1	0 remote locking, 1 locking per closing
Master-Slave/synchronization	0/1	0 master-slave opening in double door mode, 1 double door simultaneous opening
Main door/slave door	0/1	0 Master door mode, 1 Slave mode (when the door is set to master)

06-2. Zero setting for closing doors

Press and hold the "Close position positioning" button, release the button when the digital tube lights up "---", the digital tube shows "SLU". Manually adjust the position of the door to the closing position, and then long press the button of "closing position positioning" until the digital tube shows "OK" and the closing position is set successfully. If "OK" is not displayed, the setting is unsuccessful.

If the closing position is found to be inaccurate during normal operation, the zero position can be set again.

When the door has stopped, operate as above.

06-3. Setting of the opening angle in the forward direction

First make sure that the zero position is set successfully, then press the button "SQUARE OPEN" briefly, the digital tube shows "SSU". Then manually adjust the door to the actual required forward opening Angle, long press the "forward opening Angle" button, until the digital tube shows "OK", the forward opening Angle setting is complete. If the nixie tube shows "Er", the setting is not successful, it may be the wrong direction to manually adjust the door (forward is the top view of the ground spring, clockwise rotation direction, vice versa).

06-4. Reverse opening angle setting


The operation is the same as for the opening angle in the forward direction, with the "Reverse opening angle" button being operated.



The default opening angle for both forward and reverse is 90 degrees.




06-5. Remote learning

Long press the "Remote code matching" button for 2 seconds, then the buzzer will sound, take out the remote control required for code matching and press any key, then the buzzer will sound "beep", and the learning of the remote control will be completed. Long press the "remote control code" button for about 10 seconds to clear all learned remote controls. At this time, the buzzer will sound "beep beep beep", and the code clearing will be completed.

07. Parameter group settings (uncommon parameters)

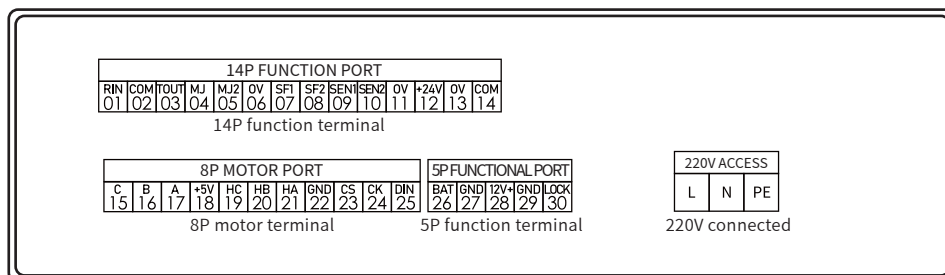
In standby mode (digital display "---"), long press the "parameter setting"  button to enter the F parameter setting interface.

Afterwards, adjust the desired parameter via the "up"  and "down"  buttons to switch and set the F01-F12 parameters.

If the current digital tube shows "F00" -> short press "parameter setting"  -> display the parameter corresponding to F00, adjust the parameter via the arrow buttons, short press "  " to return to F00, long press "  " to save and exit, and F parameter setting is complete.

Parameter No.	Function	Scope	Description
F00	Unlocking delay	0-10	Delayed opening of the door after unlocking.
F01	Lock type	0-2	0 long unlocking, 1 long closing, 2 electric control lock
F02	Stopping method	1	Automatic mode (this parameter is not adjustable)
F03	Type of shielding	0-4	0 not shield 1 Forward shield 2 Reverse shielding 3 Fully shielded 4 Intelligent shield
F04	Zero correction	0.0-5.0	Fine fine adjustment of the closing zero position is possible
F05	Opening angle in the forward direction	45-175	This parameter allows you to adjust the opening angle in the forward direction
F06	Reverse opening angle	45-175	This parameter allows you to adjust the opening angle in the reverse direction
F07	Encoder type	0	Encoder type (this parameter is not adjustable)
F08	Buzzer switch	0-1	0 off, 1 on
F09	Special modes	0-2	0 Normal mode, door is closed in position, no force (default) 1 Boost mode, door opens automatically by pushing, force is influenced by F10 2 windproof mode, anti-push when door is closed, force is influenced by F10
F10	Closing force	0-3	Adjustment of the tightening force after closing the door.
F11	Light doors/heavy doors	0-1	Door type selection (default 0 light door)
F12	Windproof correction delay	5-60	In windproof mode (F09=2), if the door is pushed open, it closes automatically after a certain time delay, in seconds

08. Description of the terminal block



Serial number	Coding	Description
01	RIN	Double door signal input
02	COM	Common terminal
03	TOUT	Double door signal output
04	MJ1	Access control 1 signal
05	MJ2	Access control 2 signal
06	0V	Common terminal
07	SF1	Safety light 1 signal
08	SF2	Safety light 2 signal
09	SEN1	Sensor 1 signal
10	SEN2	Sensor 2 signal
11	0V	Ground line
12	+24V	24V output
13	0V	Ground line
14	COM	Ground line
15	C	Motor phase line C
16	B	Motor phase line B
17	A	Motor phase line A
18	+5V	Hall power supplies
19	HC	Hall C
20	HB	Hall B
21	HA	Hall A
22	GND	Ground line
23	CS	Encoder line CS
24	CK	Encoder wire CK
25	DIN	Encoder wire DIN
26	BAT	Positive input for back-up power (24V)
27	GND	Back-up power ground
28	+12V	+12V output
29	GND	Ground line
30	LOCK	Electric locks

09. Wiring Instructions

14P FUNCTION PORT													
RIN	COM	TOUT	MJ	MJ2	OV	SF1	SF2	SEN1	SEN2	OV	+24V	OV	COM
01	02	03	04	05	06	07	08	09	10	11	12	13	14

14P function terminal

8P MOTOR PORT											5P FUNCTIONAL PORT				
C	B	A	+5V	HC	HB	HA	GND	CS	CK	DIN	BAT	GND	12V+	GND	LOCK
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

8P motor terminal

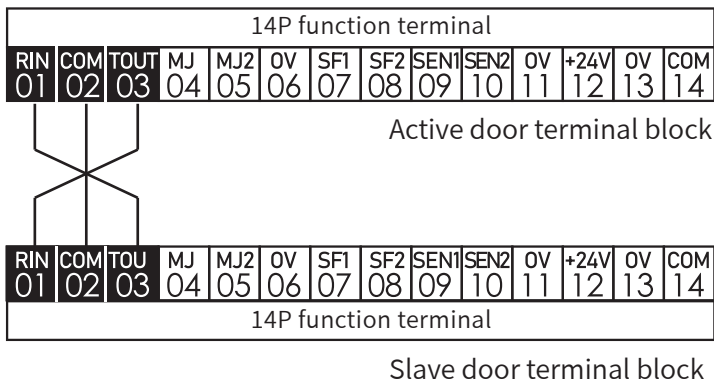
5P function terminal

220V ACCESS		
L	N	PE

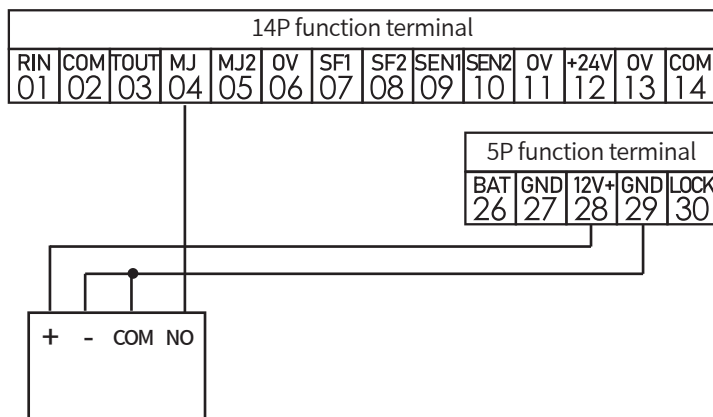
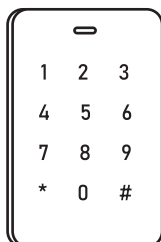
220V connected

01 RIN	Double door signal input	15 C	Motor phase line C
02 COM	Common terminal	16 B	Motor phase line B
03 TOUT	Double door signal output	17 A	Motor phase line A
04 MJ1	Access control 1 signal	18 +5V	Hall power supply
05 MJ2	Access control 2 signal	19 HC	Hall C
06 OV	Common terminal	20 HB	Hall B
07 SF1	Safety light 1 signal	21 HA	Hall A
08 SF2	Safety light 2 signal	22 GND	Earth wire
09 SEN1	Sensor 1 signal	23 CS	Encoder line CS
10 SEN2	Sensor 2 signal	24 CK	Encoder wire CK
11 OV	Ground	25 DIN	Encoder wire DIN
12 +24V	24V output	26 BAT	Back-up power positive input (24V)
13 OV	Ground	27 GND	Back-up power ground
14 COM	Ground	28 +12V	+12V output
		29 GND	Earth wire
		30 LOCK	Electric lock

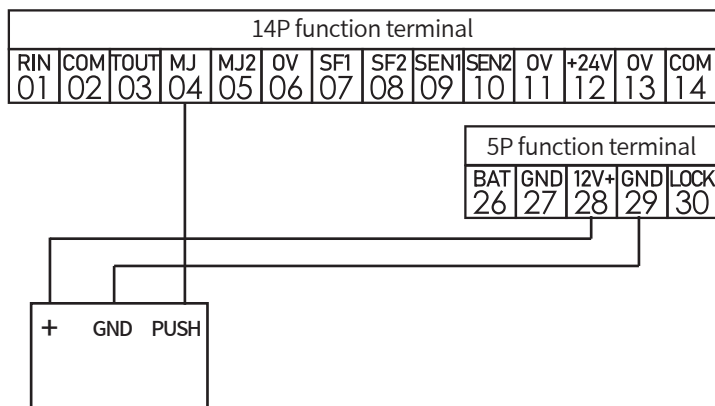
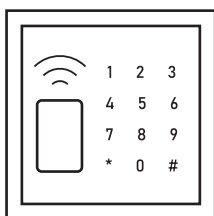
Synchronised connection of two doors



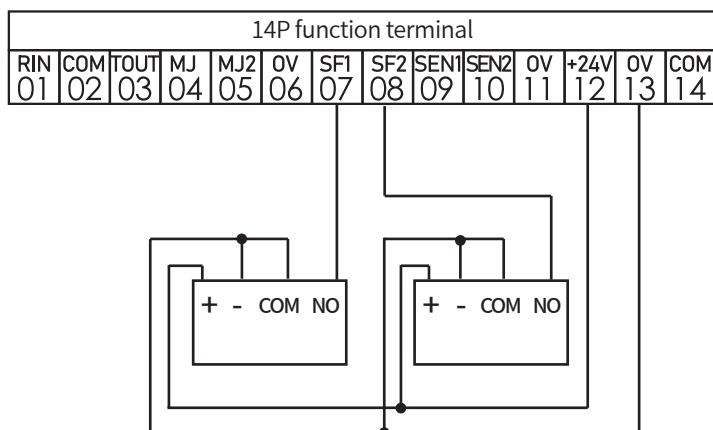
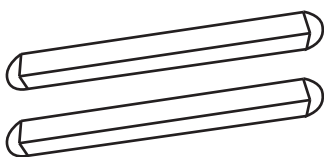
Connection to access control machine (4-wire)



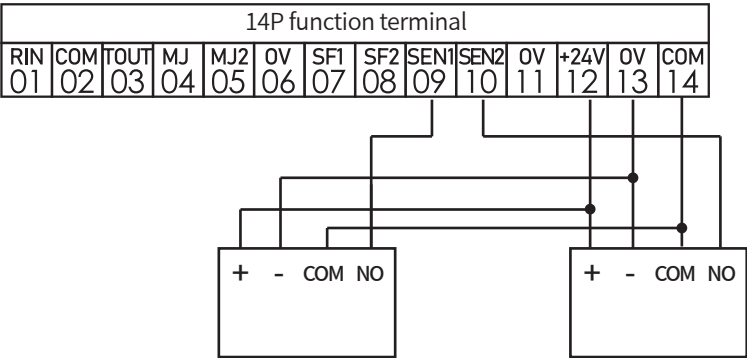
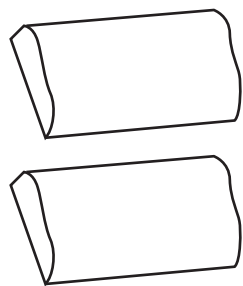
Connection to access control machine (3-wire)



Connection to safety light curtains

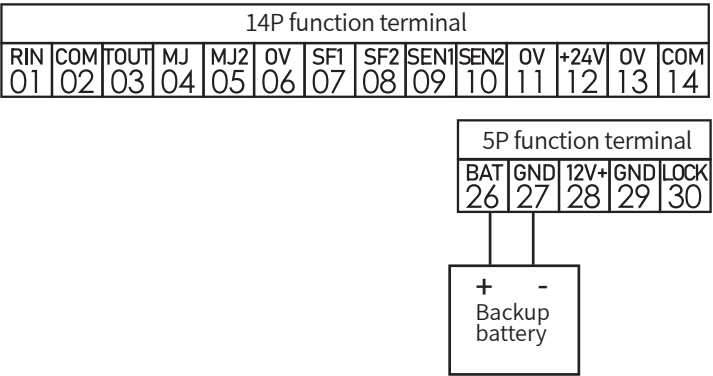
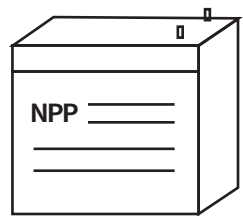


Connection to sensors

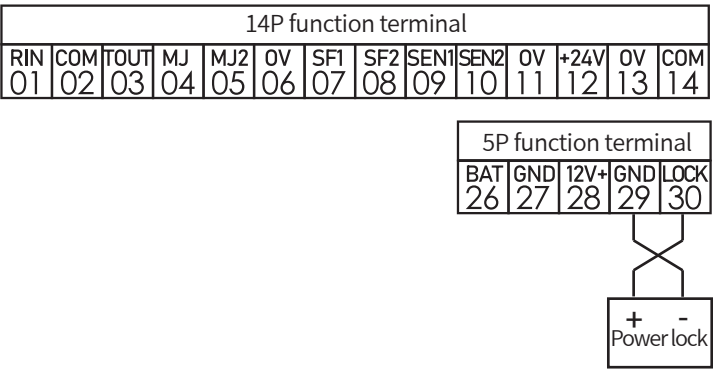
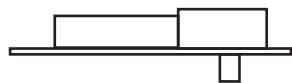


The direction of the sensor installation is determined according to the opening direction of the door, inside and outside, the direction of the door opening is the same as the direction of the sensor, swap 09 and 10

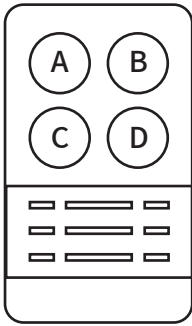
Connection to back-up power supply



Connection to electric lock



10. Remote control instructions



Instructions for coding the remote control to the controller:

1. Reset: long time press the pair button above 12s, loosen the button after heard continue 6 DI-DI sound, clear all remote control
2. Pair: press the pair button of controller 2s, loosen it after buzzer sounding. Now press down any key on the remote controller, buzzer sounding 3 times then mean pair successfully. The buzzer will sounding when use remote controller.
3. Note: buzzer no sound when use remote controller, this means remote controller and controller fail to pair, please repeat term 2.

Note: all wiring must be processed under that power supply cut off

- | | |
|----------------------------------|----------------------------------|
| A Reverse (normally open) | B Forward (normally open) |
| C Locking door | D Normal |

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