

# Quick Installation and Setting

Multi-Drive PRO



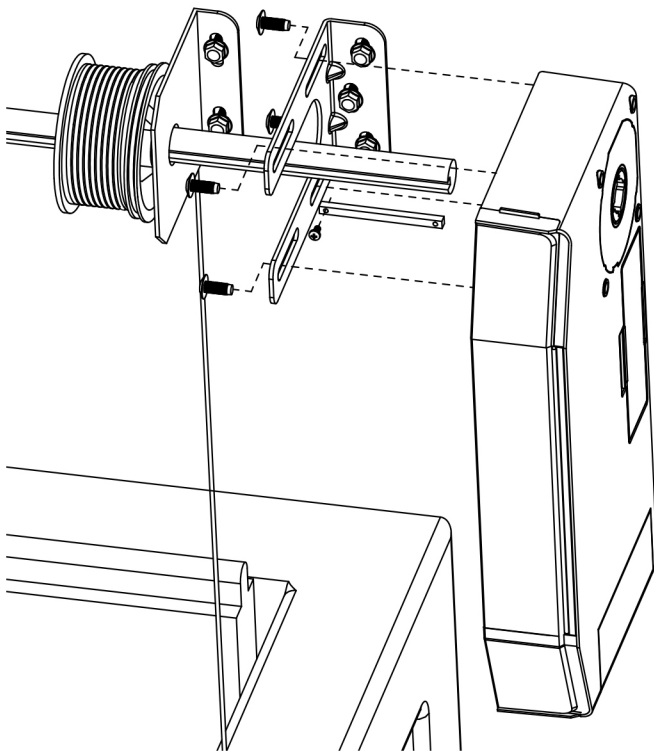
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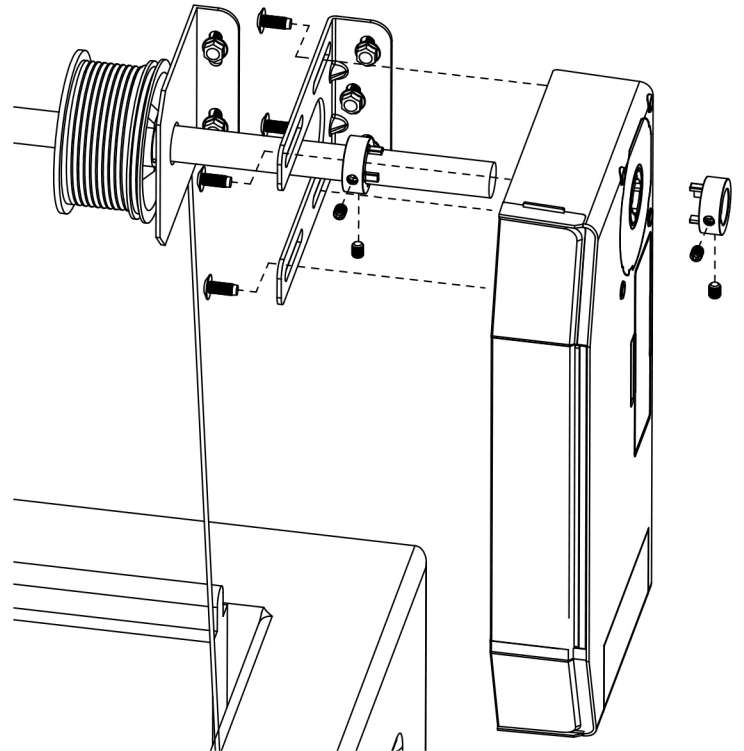
## WARNING

Please read the manual carefully before installation and use.  
The installation of your new door opener must be carried out by a technically qualified or licensed person.  
Attempting to install or repair the door opener without suitable technical qualification may result in severe personal injury, death and / or property damage.

## A Mechanical installation



Jack shaft with keyway installation



Jack shaft keyless installation

## B Emergency release



### CAUTION!

Disconnect the gate from the mains before using the emergency release. The emergency release must be used only with the motor stopped and only by service technicians or trained persons. The emergency release must be operated from a safe position only.



### DANGER OF FALLING!

In case of an emergency release, the door could independently open or close itself due to a broken spring or incorrect setting of the weight balancing. The operator could be damaged or destroyed.



### IMPORTANT INFORMATION!

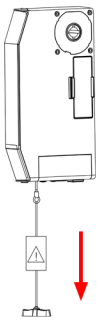
A switchover between manual and motorised operation can take place in any position of the door.



### IMPORTANT INFORMATION!

The gate must not be moved past the end positions, otherwise safety switch will be approached. The gate system can be electrically operated again when the safety switch has been "released" by emergency actuation.

## B1 Opening and closing door with emergency chain



1. Pull the emergency cord handler once (pull force max. 250 N).  
⇒The gearing moves freely and the door can be moved manually.
2. Open or close the door manually.
3. Pull the emergency cord handler once (pull force max. 250 N).  
⇒The opener is ready for motorised operation again.

## C Control box function button introduction

### C1 Basic button instructions

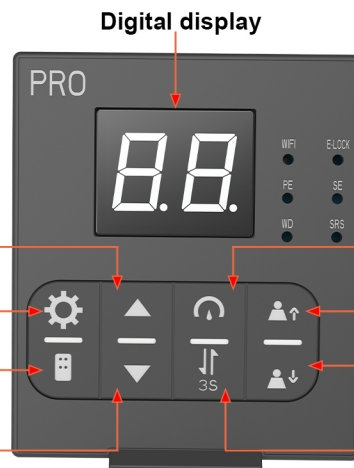
**Short press:** Door opening button/ move up to adjust the function menu/travel setting "door opening" button

**Short press:** Menu confirmation button  
**Long press:** Enter the menu

**Short press:** Enter transmitter coding mode, display menu, return to the standby screen

**Long press for 8 seconds:** Clear all remote control codes and display

**Short press:** Door closing button / move down to adjust the function menu / travel setting "Door closing" button



**Short press:** Display the current door opening speed parameters, default parameters: **80** (Default)  
**Long press for 8 seconds:** Adjust the door opening speed, parameter range:

**60 ~ 80**

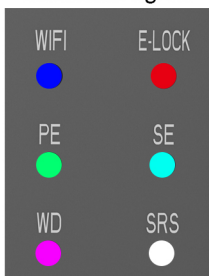
**Adjust the door opening force margin button**  
View D4 for details

**Adjust the door closing force margin button**  
View D5 for details

**Coding button for wireless accessories**  
View D3 for details

### C2 Wireless device light description

Indication light :

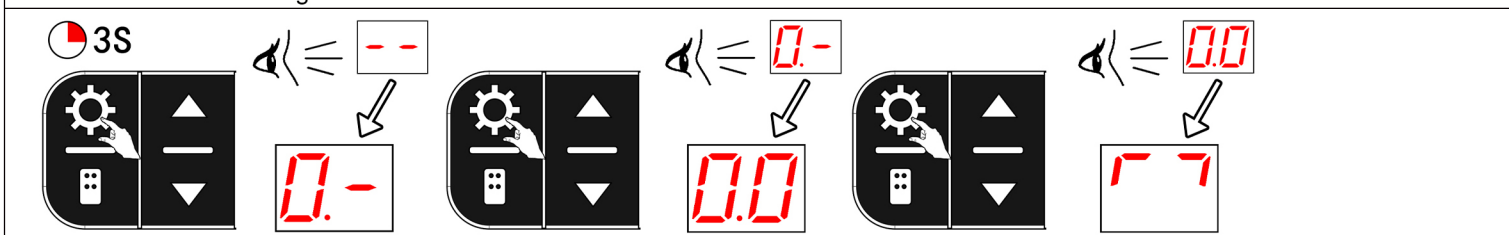


Device Name	Red	Green	Cyan	Purple	White
E-LOCK : Wireless E-LOCK	Device is paired and triggered	Device is paired and not triggered	Low battery, Device is not triggered	Low battery, Device is triggered	Device signal lost
PE : Wireless Photo Beam	Device is paired and triggered	Device is paired and not triggered	Low battery, Device is not triggered	Low battery, Device is triggered	Device signal lost
SE : Wireless Safety Edge	Device is paired and triggered	Device is paired and not triggered	Low battery, Device is not triggered	Low battery, Device is triggered	Device signal lost
WD : Wireless Wicket Door	Device is paired and triggered	Device is paired and not triggered	Low battery, Device is not triggered	Low battery, Device is triggered	Device signal lost
SRS : Wireless Slack Rope Switch	Device is paired and triggered	Device is paired and not triggered	Low battery, Device is not triggered	Low battery, Device is triggered	Device signal lost

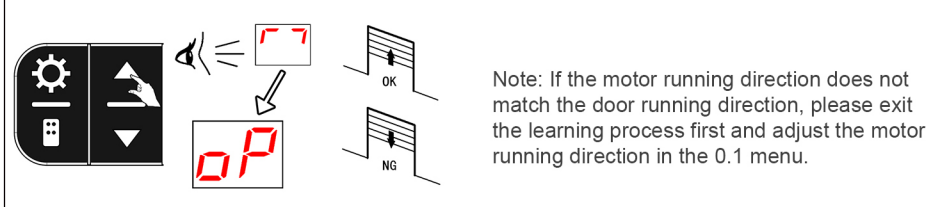
# D Programming instructions

## D1 Travel limit setting

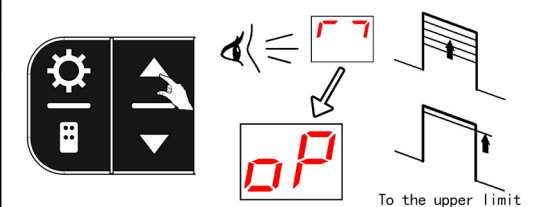
1. Enter motor travel setting



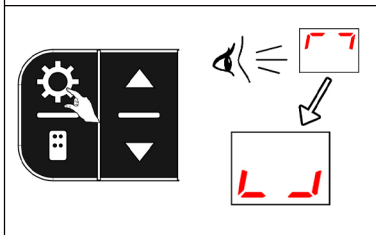
2. Check motor output direction and door running direction



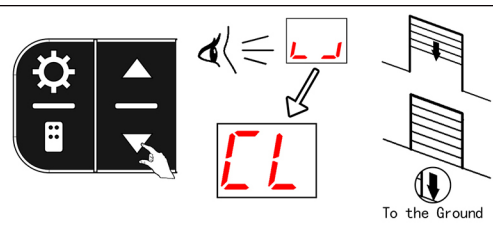
3. Start the travel limit set, open the door and move to the open limit position



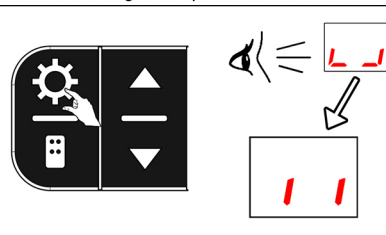
4. Save upper limit position



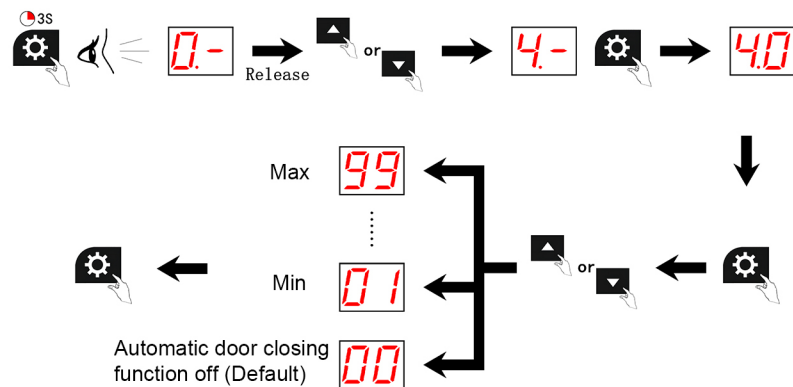
5. Close the door and move to the close limit



6. After confirming the close limit position, the motor enters into self-learning. When the motor self-learning is complete, the travel limit set is complete.



## D2 Auto close setting



① The time setting range of this parameter is: 1 second - 990 seconds.

① Press the + button to set the parameter per second to flash slowly 1-99, and when the + button exceeds 99, the parameter resets to flash 1-99 quickly, and each parameter is 1\*10 seconds at this time.

## D3 Wireless accessories coding

**3S**  
**Long press for 3 seconds:** Enter the wireless device coding state, the indication light is always white, and the display

**8S**  
**Press and hold for 8 seconds:** Clear all wireless coding accessories, and release the button when the indication light flashes red.

### D3.1 Instructions for coding Wireless Devices

**3S**  
**1. Press and hold the wireless accessories coding button for 3 seconds.**  
**2. Check if the LED light is on and the panel display**

**3S**  
**3. Press and hold the wireless device pairing button for 3 seconds.**  
**4. After the LED light flashes, check if the corresponding indication light is on. (the indicator light color changes according to the device status).**

## D4 Adjust the door opening force level

**Short press:** Display the current door opening force level parameters, default parameters: (Default)

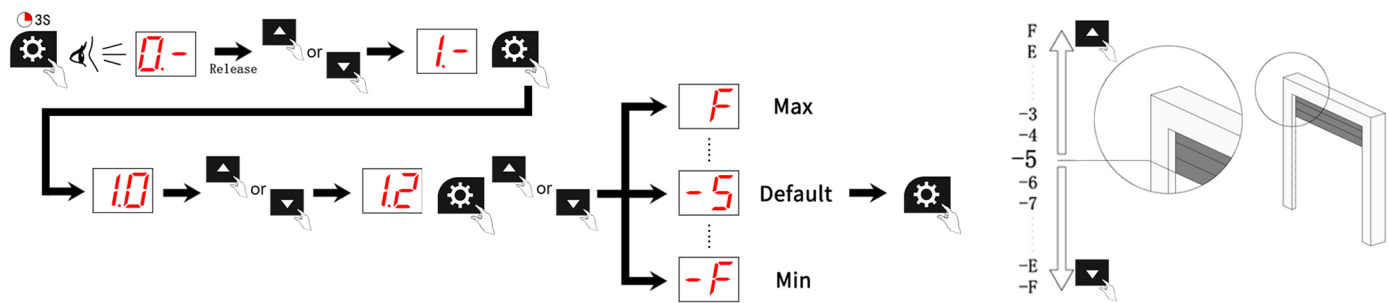
**Long press:** Adjust the door opening force level, level range: ~

## D5 Adjust the door closing force level

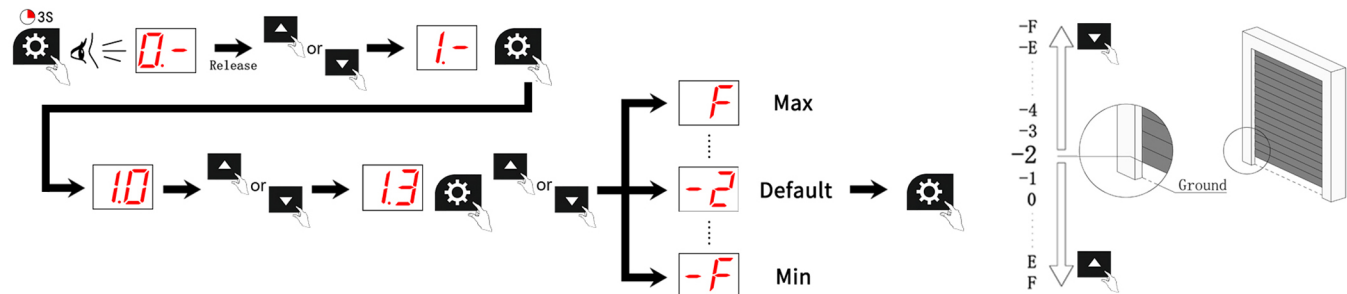
**Short press:** Display the current door closing force level parameters, default parameters: (Default)

**Long press:** Adjust the door closing force level, level range: ~

### D6 Fine adjustment of the open limit position



### D7 Fine adjustment of the close limit position



### D8 Restore factory function setting



- ① All settings are set to factory settings! Except the cumulative running times of the motor and the number of maintenance alarms.
- ① After restoring the factory settings, power off the motor for 1 minute and then power on again.

## E Commonly functions



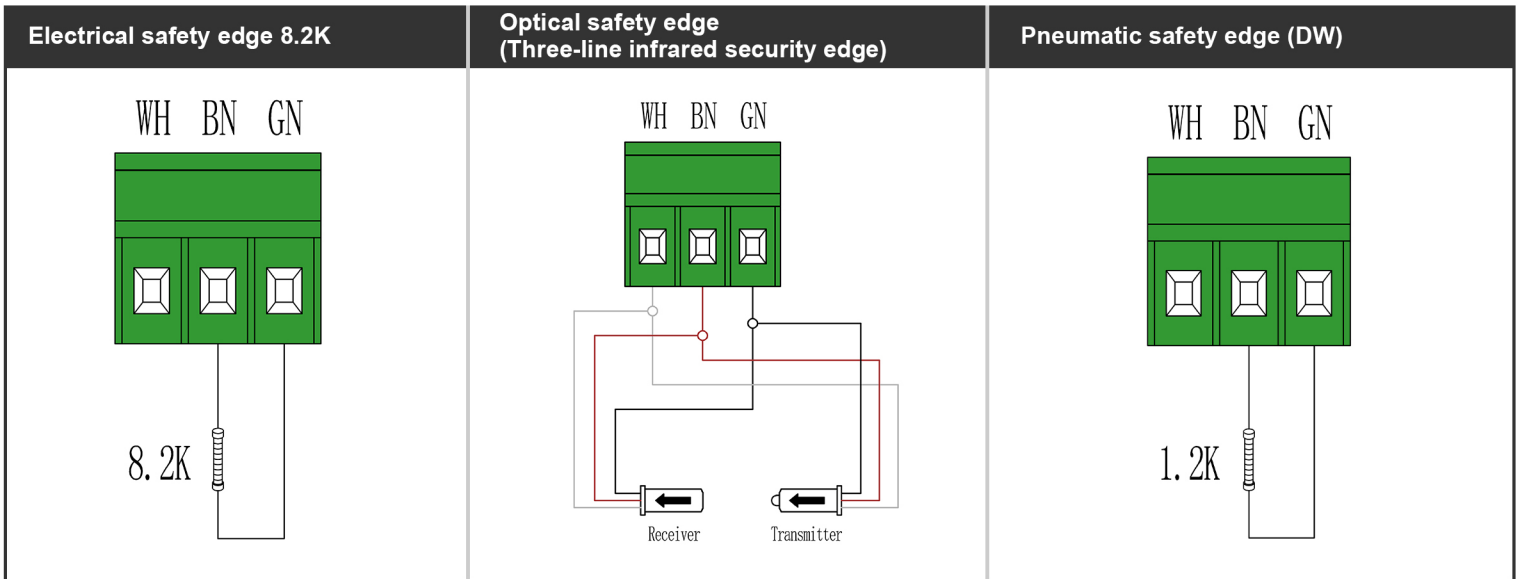
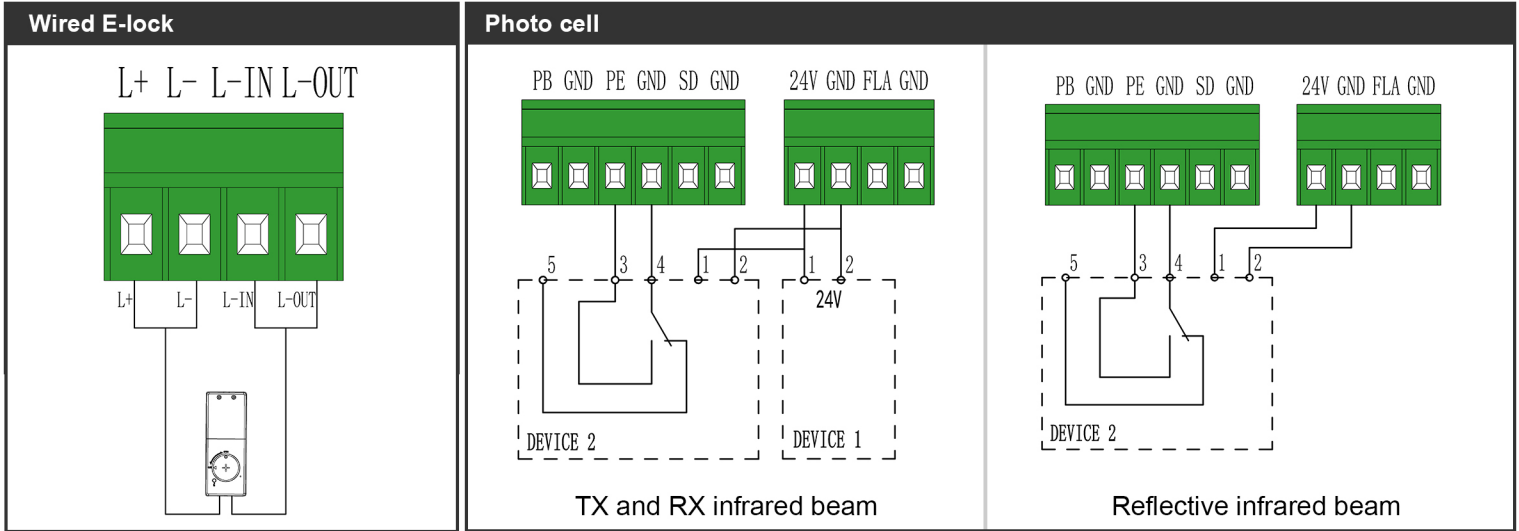
We strongly recommend that the control system needs to be debugged only for certain technical reasons, and that only professionals can debug this function. Otherwise, if operated by non-professionals, the product will not be covered by the warranty.

### Function debugging

Press and hold about 3 seconds to enter main menu until **0-** appears on the display then release the button. Press the button or button until the desired function is reached then release the button. Press the button again, enter the function setting mode.

Display	Function and description	Video	Display	Function and description	Video
<b>0.1</b>	<b>Motor rotation direction setting</b> "0~1" (Set on "0" as standard in factory.)		<b>2.3</b>	<b>Soft start range adjustment</b> "1~8" (Set on "3" as standard in factory.)	
<b>0.2</b>	<b>Remote control function selection</b> "0~4" (Set on "0" as standard in factory.)		<b>2.4</b>	<b>Closing soft stop speed adjustment</b> "30~80" (Set on "35" as standard in factory.)	
<b>1.0</b>	<b>Open/Close button model setting</b> "1~4" (Set on "4" as standard in factory.)		<b>2.5</b>	<b>Opening soft stop speed adjustment</b> "50~80" (Set on "55" as standard in factory.)	
<b>1.1</b>	<b>Safety edge pre-limit fine-tuning</b> "1~F" (Set on "2" as standard in factory.)		<b>3.0</b>	<b>Soft stop time setting</b> "0.1~2.0" (Set on "0.7" as standard in factory.)	
<b>1.2</b>	<b>Motor upper limit fine-tuning</b> "-F~F" (Set on "-5" as standard in factory.)		<b>3.1</b>	<b>Soft start time setting</b> "0.1~2.0" (Set on "0.7" as standard in factory.)	
<b>1.3</b>	<b>Motor lower limit fine-tuning</b> "F~F" (Set on "-2" as standard in factory.)		<b>3.2</b>	<b>Motor lower limit overflow time setting</b> "0~50" (Set on "20" as standard in factory.)	
<b>2.0</b>	<b>Door closing speed adjustment</b> "40~A0" (Set on "70" as standard in factory.)		<b>3.3</b>	<b>Obstruction reversal sensitive adjustment</b> "0~99" (Set on "0" as standard in factory.)	
<b>2.1</b>	<b>Door opening speed adjustment</b> "60~A0" (Set on "A0" as standard in factory.)		<b>3.4</b>	<b>Photo beam obstruction reversal sensitive adjustment</b> "0~99" (Set on "50" as standard in factory.)	
<b>2.2</b>	<b>Soft stop range adjustment</b> "1~8" (Set on "4" as standard in factory.)		<b>3.5</b>	<b>Reversal running time adjustment</b> "0~9" (Set on "0" as standard in factory.)	

Display	Function and description	Video	Display	Function and description	Video
	<b>Automatic closing function</b> "0~99" (Set on "0" as standard in factory.)			<b>Inquiry of the latest 4 fault codes of the motor</b>	
	<b>Automatic closing condition function setting</b> "1~2" (Set on "1" as standard in factory.)			<b>Maintenance alarm times setting</b> "0~E" (Set on "0" as standard in factory.)	
	<b>Relevance setting of automatic closing and pohot beam function</b> "0~30"(Set on "0" as standard in factory.)			<b>Maintenance alarm times inquiry</b>	
	<b>PE port function setting</b> "1~2"(Set on "1" as standard in factory.)			<b>Fire alarm port function setting</b> "0~3"(Set on "3" as standard in factory.)	
	<b>Partial open function setting</b> "0~8"(Set on "0" as standard in factory.)			<b>Transmitter invalid function setting</b> "0~1"(Set on "0" as standard in factory.)	
	<b>PB port function setting</b> "1~5"(Set on "1" as standard in factory.)			<b>Display button lock function</b> "0~1"(Set on "0" as standard in factory.)	
	<b>Flash light port function setting</b> "0~6" (Set on "0" as standard in factory.)			<b>Pre-warning time setting before door closing</b> "0~9"(Set on "0" as standard in factory.)	
	<b>Electronic lock function setting</b> "0~1" (Set on "0" as standard in factory.)			<b>Pre-warning time setting before auto - closing</b> "0~12"(Set on "0" as standard in factory.)	
	<b>Partial open port function setting</b> "1~5" (Set on "4" as standard in factory.)			<b>Warning light flashing frequency setting</b> "1~5"(Set on "3" as standard in factory.)	
	<b>Relay function setting</b> "0~54" (Set on "0" as standard in factory.)			<b>Flash light off delay setting after door closed</b> "0~7"(Set on "0" as standard in factory.)	
	<b>Safety edge function identification</b> "0~3&5"			<b>Relay module function - traffic light pre-warning time setting before the dust operation</b> "0~9"(Set on "0" as standard in factory.)	
	<b>Courtesy light delay off time setting</b> "1~9" (Set on "3" as standard in factory.)			<b>Relay module function - traffic light pre-warming time setting before Auto-closing</b> "0~12" (Set on "0" as standard in factory.)	
	<b>Restore factory setting</b>			<b>Relay module function - traffic light traffic light flash frequency setting</b> "0~5" (Set on "3" as standard in factory.)	
	<b>Customer version inquiry</b>			<b>Relay module function - traffic light Traffic Light off delay time setting</b> "0~7" (Set on "0" as standard in factory.)	
	<b>Software version inquiry</b>			<b>Relay module function - traffic light Traffic Light flash ranges setting during closing</b> "0~3" (Set on "0" as standard in factory.)	
	<b>Motor running cycles inquiry</b>			<b>Relay module function - traffic light Traffic Light flash ranges setting during opening</b> "0~3" (Set on "0" as standard in factory.)	



### Safety Edge Mode Switching Steps :





























1. Before switching the safety edge port mode, please ensure that the power is disconnected.
2. After the power is disconnected, replace the safety edge device that needs to be connected .
3. Reconnect the power, and the safety edge port will automatically recognize the change, completing the safety edge mode switch.



### Precautions:

1. Please note if the power is not disconnected before switching the safety edge port mode, the safety edge port will not be able to automatically recognize the change. In this case, the control box's display may show an error message.
2. If both a wired safety edge port and a wireless safety edge device are connected at the same time, the device will automatically prioritize the recognition of the wireless safety edge device. In this case, the wired safety edge port will become inactive.

# G Common fault & solutions

Fault display	Fault Description	Fault Correction	Video
	Encoder can't get data during door running. Motor can't open or close the door.	<ol style="list-style-type: none"> <li>1. Stuck point in the door, check door and track.</li> <li>2. Door running speed is too slow, adjust speed from Menu 2.0 and 2.1.</li> <li>3. Travel limit gear structure problem, change a new motor.</li> </ol>	
	Encoder failure.	Replace the encoder.	
	Communication failure between travel limit module and encoder.	<ol style="list-style-type: none"> <li>1 Eliminate the interference source and re-execute the control operation.</li> <li>2. Replace a new connection cable.</li> <li>3. Replace a new encoder.</li> </ol>	
	Travel limit module not detected.	<ol style="list-style-type: none"> <li>1. Replace the encoder accessories.</li> <li>2. Replace the encoder chip.</li> <li>3. If the travel limit system fails, replace the control module.</li> </ol>	
	Motor overload.	<ol style="list-style-type: none"> <li>1. Check door running is proper and smooth enough.</li> <li>2. Replace a new motor.</li> </ol>	
	Slack rope switch port.	Check and fix steel rope.	
	Safety edge port is not connected with any device.	No safety edge device is connected, motor only can be operated in Deadman mode. Connect with a safety edge device to solve the problem.	
	<ol style="list-style-type: none"> <li>1. During setting the door open/close limit, it appears when pressing SET.</li> <li>2. Motor operation exceeds the limit turns.</li> <li>3. It appears when the built-in infrared coordinate setting condition is not at the door open limit, or appears when both are built-in infrared.</li> <li>4. When the automatic closing is executed, the door can not be closed due to related faults or DW setting in Deadman mode.</li> </ol>	According to the operating instructions, adjust the settings when meeting the relevant conditions.	
	<ol style="list-style-type: none"> <li>1. Wired E-Lock is triggered or faults.</li> <li>2. "6.3" function is switched on, but no wired E-Lock is connected.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the wired E-Lock wiring.</li> <li>2. Check whether the wired E-Lock is abnormal or damaged, the wired E-Lock bolt can not retract properly.</li> </ol>	
	Door travel limit set failure, travel is too short or exceed encoder turns.	Reset door open/close position limit.	
	Wicket door port triggers the emergency stop.	Check wicket door device.	
	Motor wiring sequence mistake.	Adjust the correct wiring sequence.	
	The program and the circuit board do not match.	Check whether the PRO version and STD version display control module, WiFi module, terminal wiring module are consistent.	
 	The connection between the driver module and the display control module is abnormal.	<ol style="list-style-type: none"> <li>1. Check whether the display control module connection cable is damaged.</li> <li>2. Check whether the wiring of the drive module and display control module is loose.</li> <li>3. Check whether the driver module is connected normally.</li> <li>4. Replace the driver module or display control module.</li> </ol>	