Multi-FG/FW
Garage Door Opener

Control System Instructions And User Guide
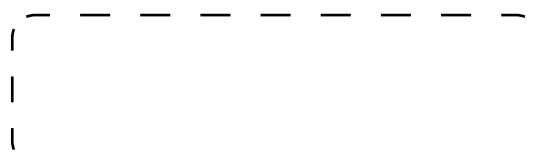
S/N

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1.General Information

Product Overview

The Multi Drive is a versatile garage and commercial door opener control system designed for reliable and efficient operation.

Installation and Maintenance

This system requires professional installation and maintenance by qualified personnel. Refer to the user manual for detailed instructions.

Safety Precautions

Electric current is hazardous. Ensure all electrical work is performed by qualified personnel, and the power is disconnected before any maintenance or installation tasks.

2.Installation Instructions

Qualified Personnel

Only competent and professional individuals should install and operate the door opener.

The installer must be electronically qualified for this type of installation.

Original Components

Any modifications or replacements must be authorized by the manufacturer and use

original components or replacement parts.

Safety Precautions

Electric shock, burns, and death can result from contact with live components.

Ensure the power is disconnected during any electrical work and the system is protected

against accidental reconnection.

User Awareness

Inform the user/owner of the hazards associated with the door and electrical installation

upon delivery, and ensure this information is passed on to any other users.

Correct Rotation

The control box is programmed for clockwise (right-rotating) operation. Ensure the

operator is correctly installed to avoid damage.

3.User Instructions

Qualified Operation

Children and individuals with limited physical, sensory, or mental abilities should not

operate the control box or play near the powered door.

Maintenance and Safety

Regular maintenance is essential for safe operation. Inspect the system regularly and

address any defects promptly.

Authorized Use

Control components, including hand-held openers, should be stored safely out of reach

to prevent unauthorized access.

Environmental Considerations

Do not use the control box in environments prone to condensation.

4. Maintenance, Disassembly and Disposal

Maintenance

The operator and control box are maintenance-free. However, the following inspections are recommended during maintenance:

- Check the complete fitting of the operator and control box.
- Check the balance of the door and correct if necessary.
- Check the function of the end switch, encoder, and limit switch setting.
- Check the function of all (safety) switches.
- Check the function of any safety edge or light curtain.
- Check the function of any braking device.
- Conduct a general (audio) visual inspection.

Disassembly

The installation manual can be used as a reference for disassembling the operator and control box. Note that the described adjustment work does not apply in this case.

Disposal

- Waste products must be separated into metals, plastics, electrical parts, and lubricants.
- Dispose of materials according to applicable national regulations.
- Do not dispose of the product with household waste. It should be treated as electronic equipment.

5.Electrical Specifications

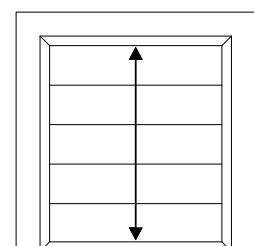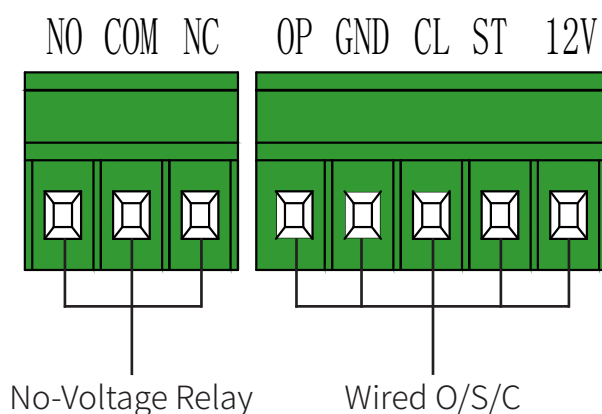|	Multi FW/FG 700N	Multi FW/FG 1100N
Input voltage	220 - 240V / 50–60 Hz	
Max. pull force	700 N	1100 N
Max. door area	8 m^2	12 m^2
Max. door weight (Balanced)	80 kg	120 kg
Max. door height	2400 - 3500mm	2400 - 3500mm
Drive mechanism	Chain / Belt	Chain / Belt
Opening / Closing speed	200mm / Second	200mm / Second
L.E.D supply voltage (DC)	24V	
Limit setting	Electronic	Electronic
Transformer	Overload protection technology	
Radio frequency	433.92 / 868.35 MHz	
Coding format	Rolling code (7.38 x 10^{19} Combinations)	
Code storage capacity	50 different codes (Subject to the actual)	
Caution light terminal	Included	Included
Working temperature	-20°C - +60°C	-20°C - +60°C
Safety protection	Soft start & Soft stop, Flash light, E-Lock, Photo beam, Safety edge, Wicket door, Slack rope switch optional	
Protection level	IP20	IP20

FS 700
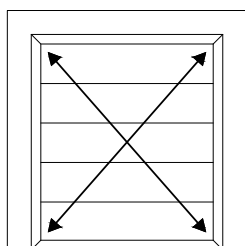
Rated door area: ≤ 8 m^2

FS 1100
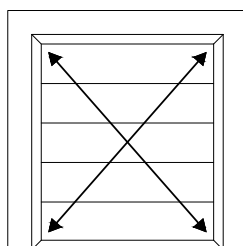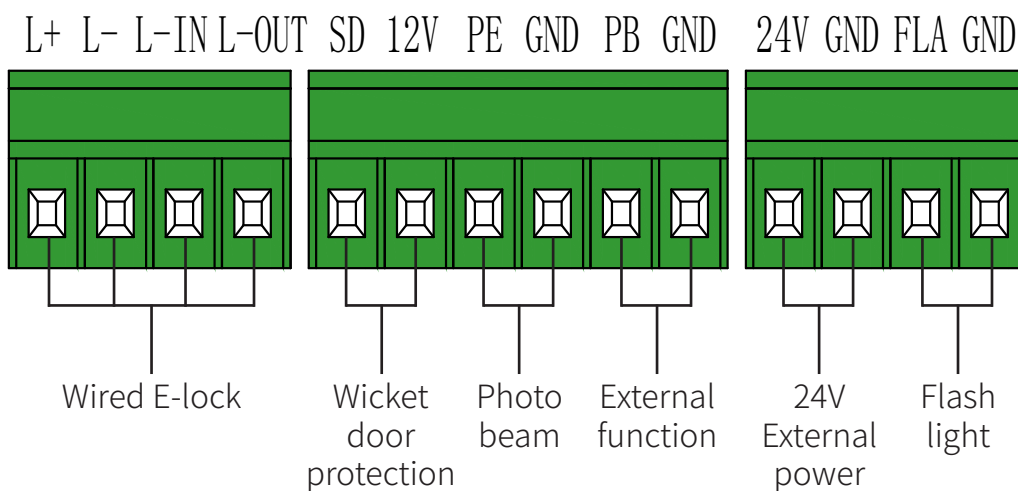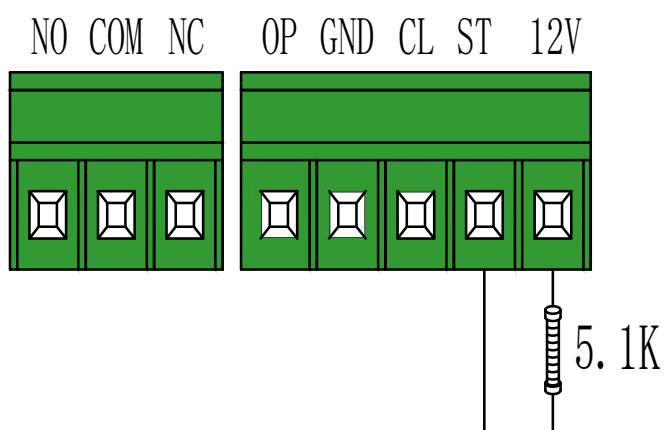

Rated door area: ≤ 12 m^2

Standard door height: 2400mm
Maximum door height: 3500mm

6.Port Descriptions

L+ L− L−IN L−OUT SD 12V PE GND PB GND 24V GND FLA GND

2K

NO COM NC OP GND CL ST 12V

5. 1K

L+ L− L−IN L−OUT SD 12V PE GND PB GND 24V GND FLA GND

Wired E-lock Wicket door protection Photo beam External function 24V External power Flash light

NO COM NC OP GND CL ST 12V

No-Voltage Relay Wired O/S/C
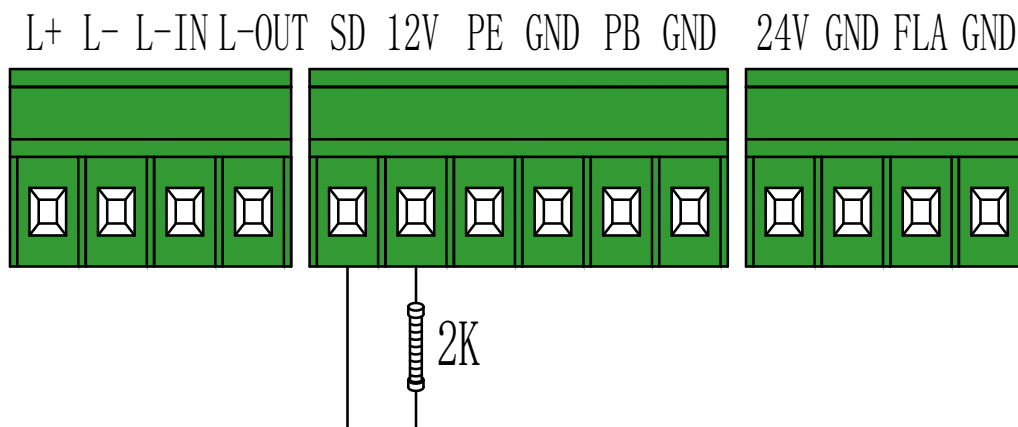
7.Electrical Installation and Wiring

Wired electronic lock	Flash light
L+ L− L−IN L−OUT	24V GND FLA GND
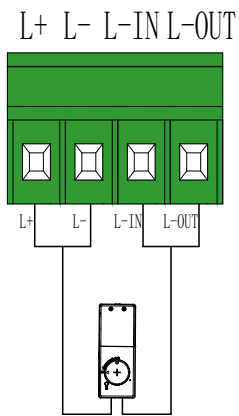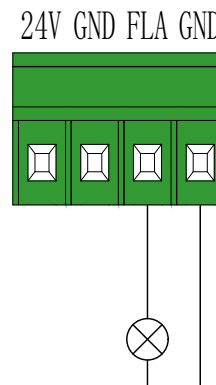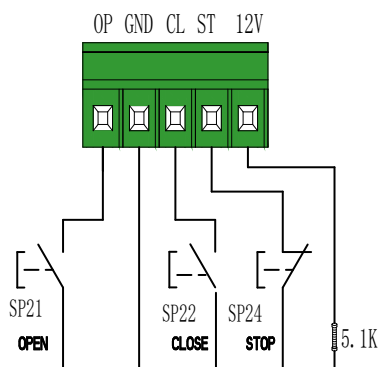
O/S/C port wiring	PB port wiring
Wired O/S/C	External control switch
OP GND CL ST 12V SP21 SP22 SP24 OPEN CLOSE STOP 5.1K	SD 12V PE GND PB GND 24V GND FLA GND 3 4 1 2 24V DEVICE 4
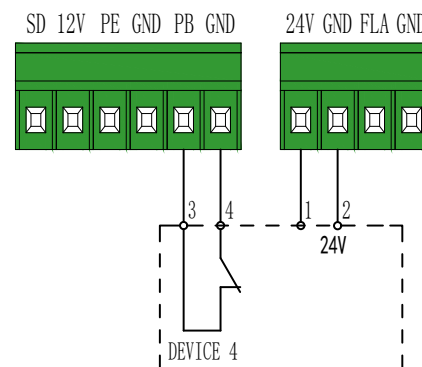
Infrared port wiring	
Standard infrared wiring	Reflective infrared wiring
SD 12V PE GND PB GND 24V GND FLA GND 5 3 4 1 2 1 2 24V DEVICE 2 DEVICE 1	SD 12V PE GND PB GND 24V GND FLA GND 5 3 4 1 2 DEVICE 2
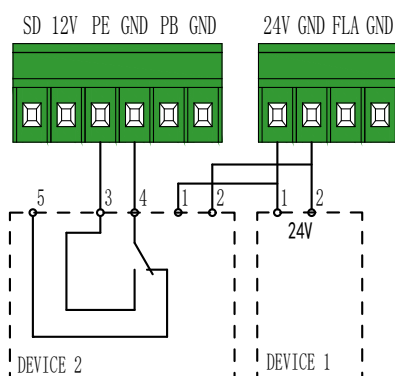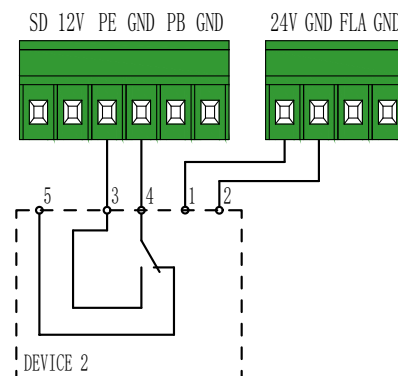
8.Control Box Button Functions

	Display Digital: Displays the current operating status and error codes.
	Wireless Device Indicator: Indicates the status of paired wireless devices (e.g., E-lock, photo beam, safety edge, wicket door, slack rope switch).
	Operation Buttons
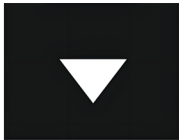
8.1 Control panel button operation instructions

Item	Button	Function Description
1.	⚙	**Short press:** Menu confirmation button **Long press:** Enter the menu
2.	🖲	**Short press:** Enter coding mode,display menu,return to the standby screen `. .` **Long press for 8 seconds:** Clear all remote control codes and display `CC`
3.	▲	**Short press:** Door opening button/ move up to adjust the function menu / Travel limit setting "Door opening" button
4.	▼	**Short press:** Door closing button / Move down to adjust the function menu / Travel limit setting "Door closing" button
5.	◔	**Short press:** Display the current door opening speed parameters, default parameters: `A0` **Long press:** adjust the door opening speed, parameter range: `70` ~ `A0`
6.	⇩⇧ 3S	**Long press for 3 seconds:** Enter the wireless device pairing state, the indicator light is always white, and the display `1 .` **Long press for 8 seconds:** Clear all wireless paired devices, and release the button when the indicator light flashes red.

Item	Button	Function Description
7.		**Short press**: Display the current door opening force level parameters, default parameters: **05** **Long press**: adjust the door opening force level, level range: **01** ~ **09**
8.		**Short press**: Display the current door closing force level parameters, default parameters: **03** **Long press**: adjust the door closing force level, level range: **01** ~ **09**

8.2 F-LinX APP configuration

1. Download the app and follow the prompts to complete the F-LinX app network configuration.

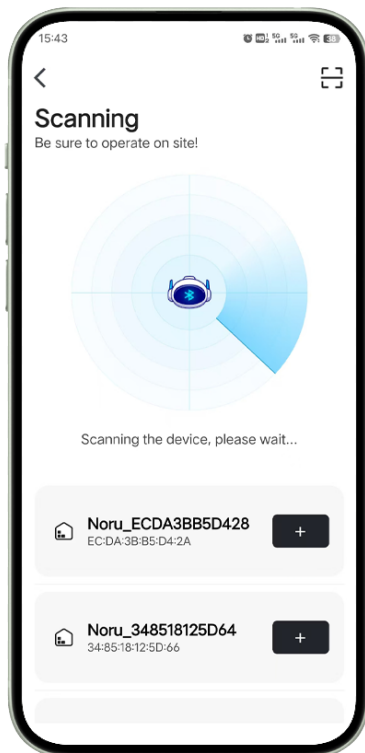F-LinX APP   IOS   GOOGLE PLAY

2. By scanning the QR code on the body of the motor through the APP, you can quickly get the motor linked to F-LinX app.(QR code on the motor as the photo below)

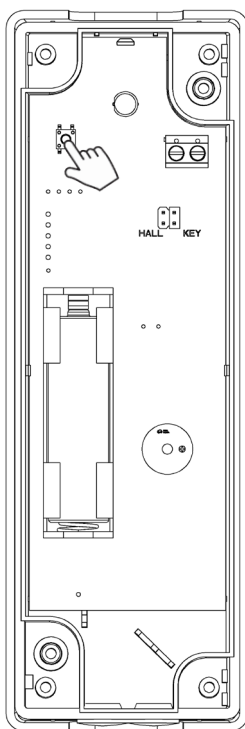# 8.3 Wireless device code pairing and clearing instructions

8.3.1 Wireless device code pairing steps

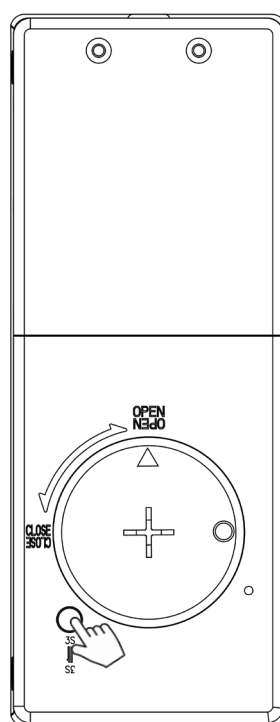1. Press and hold the wireless devices coding button ON MOTOR for 3 seconds.

2. Check if the LED light is on and the panel display [*1.*], it means now the motor is in pairing mode.
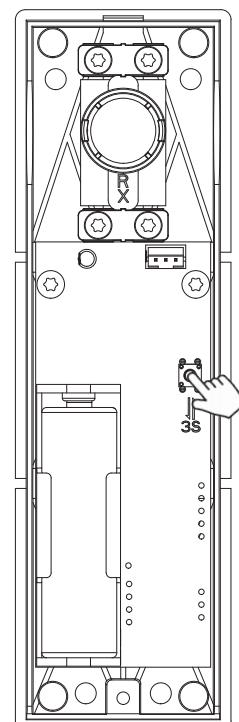

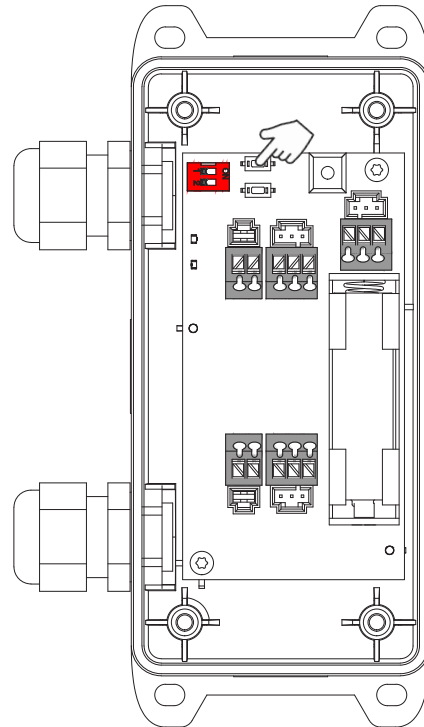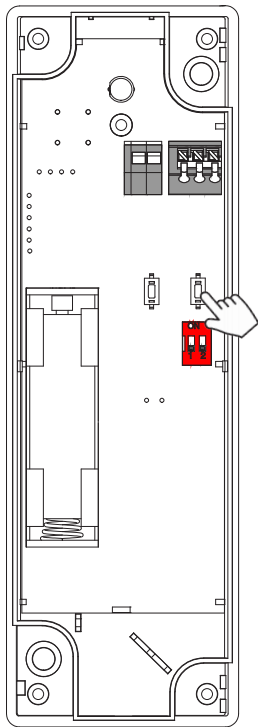3. Press and hold the pairing button on the wireless device.
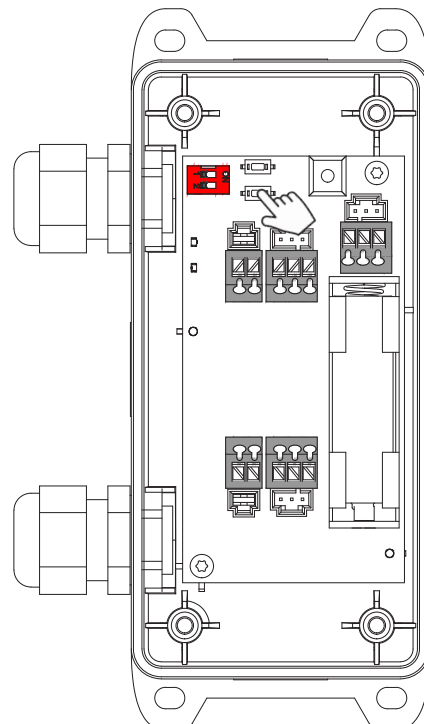

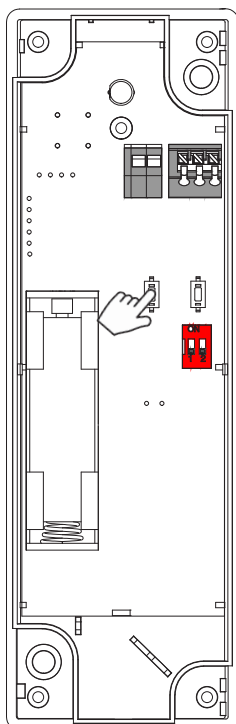| Wireless wicket door (Optional) | Wireless E-Lock (Optional) | Wireless photo beam (Optional) |

Wireless safety edge (industrial & residential)
(Optional)

Slack rope switch
(Optional)

4. After the LED light on the motor flashes, check if the corresponding indicator light is on. (The indicator light color changes according to the device status.)

Wireless E-Lock

Wireless photo beam

Wireless safety edge

Wireless wicket door

Slack rope switch

8.3.2 Wireless device code clearing steps

1. Press and hold the wireless pairing button on the motor for 10 seconds.

The motor display | *I I* |. At the same time, the LED light flashes red and blue alternately, and all wireless device indicators turn off after releasing.

8.4 Detailed Description of the LED Status on the Control Box Panel Label Equipment

8.4.1 The following figure is a reference for the LED color display
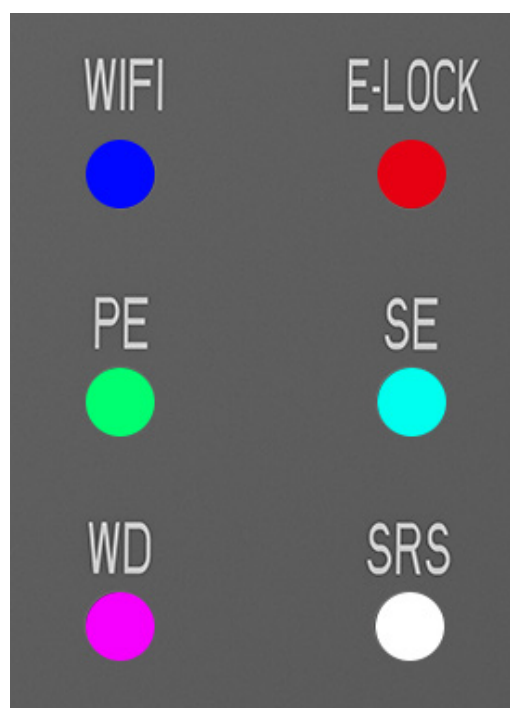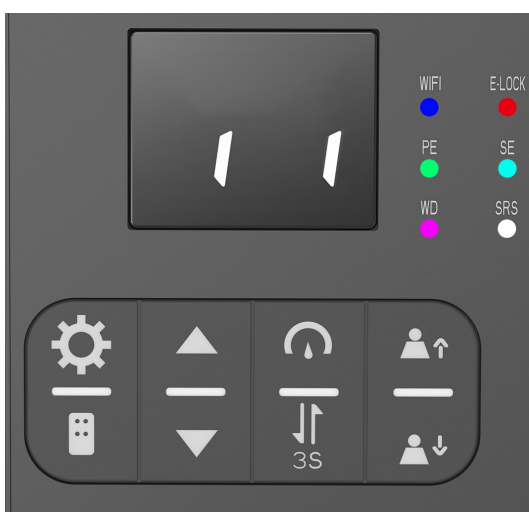
8.4.2 Wireless security device status corresponds to different colors of LED display：

LED Color / 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

9. Parameter Overview

Par	Function Description	Description of default parameters	P.
0.0	Travel limit setting	Learning the open limit and close limit of motor	22
0.1	Motor rotation direction setting	**00** : Motor standard direction (Default)	23
0.2	Remote control function selection	**00** : Standard function, single key cycle (Default)	23
0.3	Community function (Social features)	**00** : Community function are turned off (Default)	25
1.0	Reversal position ignorance while obstruction	**01** : :Reversal position ignoring setting to 1cm up the ground (Default)	26
2.0	Door closing speed adjustment	**70** : 70% door closing speed (Default)	27
2.1	Door opening speed adjustment	**A0** : Full door opening speed (Default)	27
2.2	Soft stop range adjustment (Door closing)	**02** : Midium range of soft stop distance (Default)	28
2.3	Soft stop range adjustment (Door opening)	**02** : Midium range of soft stop distance (Default)	28
3.0	Soft stop time setting	**0.7** : The slow stop time when the motor is running is 0.7 seconds (Default)	29
3.1	Soft start time setting	**0.7** : Motor start time 0.7 seconds (Default)	29

Par	Function Description	Description of default parameters	P.
3.2	Photo beam obstruction reversal sensitive adjustment	**50** : Photo beam reaction time 0.5s (Default)	30
3.3	Reversal running time setting (After the resistance rebound)	**00** : Option 00: Door stops at open limit upon reversal (Default)	31
4.0	Automatic closing function	**00** : Automatic door closing function off (Default)	32
4.1	Automatic closing condition function setting	**01** : Open limit executes automatic door closing (Default)	32
5.0	Wired photo beam function ON/OFF setting	**00** : Photo beam function is not enabled (Default)	33
6.0	Partial open function setting	**00** : The Partial Open / Height function is not enabled (Default)	33
6.1	PB port function setting	**01** : Switch stop cycle function (Default)	35
6.2	Flash light port function setting	**00** : Function disabled (Default)	36
6.3	Wired electronic lock function setting	**00** : Function disabled (Default)	37
6.4	Relay function setting	**00** : Relay function off (Default)	38

Par	Function Description	Description of default parameters	P.
`7.0`	Courtesy light delay off function setting	`03`: Delay 3 minutes to close (Default)	44
`7.1`	Restore factory setting	All function settings are set to factory settings! Except for the motor's cumulative running time and the number of maintenance alarms.	44
`7.2`	Customer version inquiry	Query function: query the customer code version information of the IDO controller	45
`7.3`	Software version inquiry	Software version information of IDO controller	45
`7.4`	Motor running cycles inquiry	Query function: query the cumulative running times of the motor	45
`7.5`	Inquiry of the latest 4 fault codes of the motor	Query function: query the last 4 fault codes of the motor	46
`8.0`	Maintenance alarm times setting	`00`: The number of maintenance alarms is not enabled (Default)	47
`8.1`	Maintenance alarm times inquiry	Query function: query the remaining number of maintenance alarms	48
`9.1`	Transmitter lock function setting	`00`: Function off (can also be enabled by standard remote control) (Default)	48
`9.2`	Pre-warning time setting before door closing (The parameter time setting range is: 0 seconds to 9 seconds. Compatible with the warning light function port 00-06 in section 6.2, the corresponding function menu can be seen after it is enabled)	`00`: Pre-operation warning time is set to 0 seconds (Default)	49

Par	Function Description	Description of default parameters	P.
9.3	Pre-warning time setting before auto - closing (compatible with the application of function 00-06 in section 6.2), and it is necessary to enable the automatic door closing function menu in section 4.0	**00** ：The warning time is 0 (Default)	49
9.4	Warning light flashing frequency setting (The warning light has a flashing frequency of 60 times per minute, compatible with the application of the warning light function port 00-06 in section 6.2, the corresponding function menu can be seen after it is enabled)	**03** ：The flashing frequency of the warning light is 60 times per minute (Default)	50
9.5	Flash light off delay setting after door closed (Compatible with the warning light function port 00-06 in section 6.2, the corresponding function menu can be seen after it is enabled)	**00** ：Warning light delay function off (Default)	51
A.0	Relay module function - traffic light pre-warning time setting before the dust operation (This menu is only visible when the traffic light function 01-06 is enabled for the relay port in menu 6.4)	**00** ：The warning time is 0 (Default)	52
A.1	Relay module function -traffic light pre-warning time setting before Auto-closing (The parameter time ranges from 0 to 120 seconds (x = n x 10). This menu only enables the 01-06 traffic light function in the trunk port of menu 6.4 and requires opening the 4.0 automatic door closing function menu)	**00** ：The warning time is 0 (Default)	52

| Par	Function Description	Description of default parameters	P.
A.2	Relay module function - traffic light traffic light flash frequency setting (This function is used to adjust the flashing frequency of relay a. This menu is only visible when the traffic light function 01-06 is enabled for the relay port in menu 6.4)	**03** ： Relay - X66 flashing frequency 60 times/minute (Default)	53
A.3	Relay module function traffic light Traffic light off delay time setting (This function is used to adjust the delay release time when the relay port reaches the lower limit. This menu is only visible when the traffic light function 01-06 is enabled for the relay port in menu 6.4)	**00** ： Relay - X66 Release (Default)	54
A.4	Relay module function - traffic light Traffic light flash ranges setting during closing (This function is used to adjust the activation of the area above the relay port's lower limit. This menu is only visible after enabling function 30 for the relay port in menu 6.4)	**00** ： 5% area above the close limit (Default)	55
A.5	Relay module function traffic light Traffic light flash ranges setting during opening (This function is used to adjust the activation area below the relay port upper limit. This menu is only visible after enabling function 31 in the relay port open function in menu 6.4)	**00** ： 5% area below the open limit (Default)	56

10.Parameter Details

0.0 Travel limit setting

To prevent any damage resulting from incorrect rotation during operation, it is crucial to manually open the door halfway before initially setting the travel stroke.

Important Note: Once you access the travel limit setting menu, the previous travel limits will be erased, necessitating re-learning the travel itinerary.
After configuring the upper and lower travel distances, the motor will initiate a self-learning cycle for one complete door opening and closing sequence. Kindly exercise

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1. Enter motor travel setting
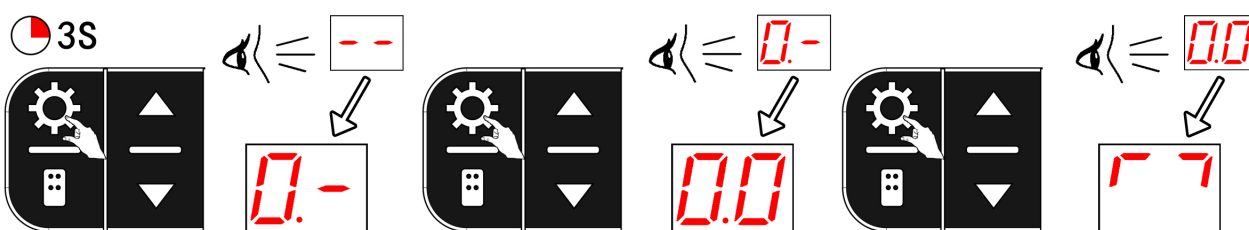
2.Check motor output direction and door running direction

OK / NG
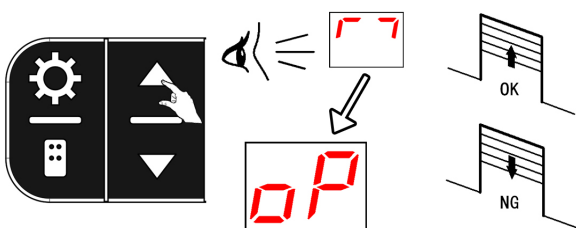
Note: If the motor running direction does not match the door running direction, please exit the learning process first and adjust the motor running direction in the 0.1 menu.

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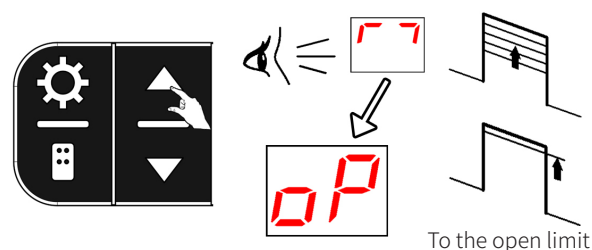
4.Save open limit position

To the open limit
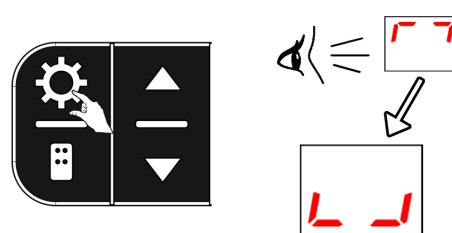
5.Close the door and move to the close limit
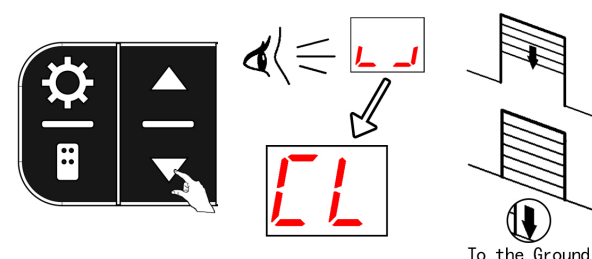
**6.After confirming the close limit position, the motor enters into self-learning.
When the motor self-learning is complete, the trip setting is complete.**

To the Ground

0.1 Motor rotation direction setting

Prior to setting the motor's travel limits, confirm that the motor's opening direction aligns with the door's intended operation direction. This alignment is crucial for accurate travel limit learning.

In case of a mismatch between the motor's opening direction and the door's operation direction, promptly adjust the motor's rotation direction to ensure proper synchronization.

The motor turns to the right — 01

The motor turns to the left (Default) — 00
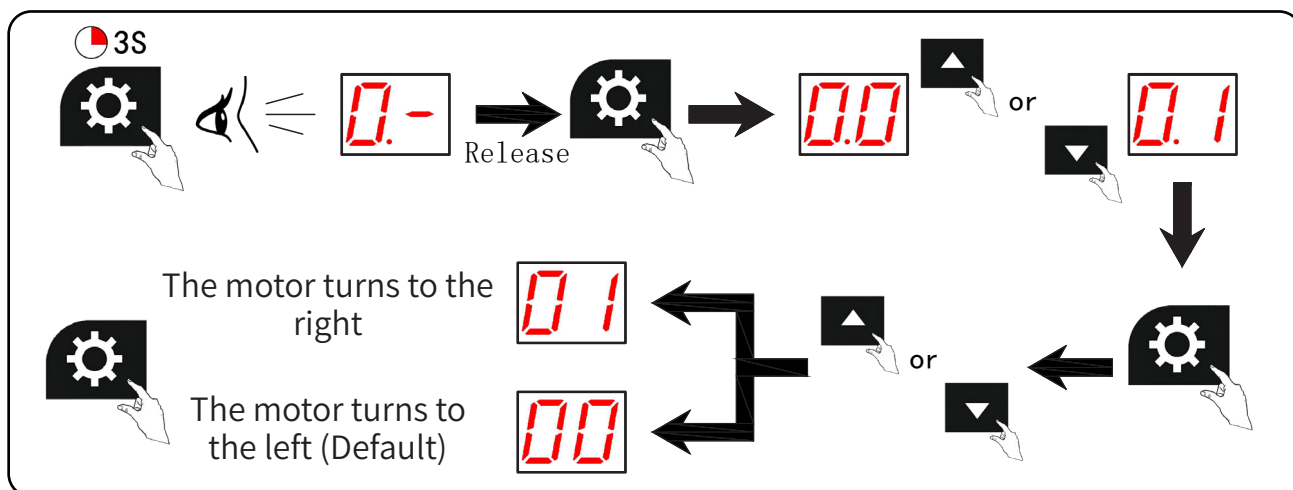
0.2 Remote control function selection

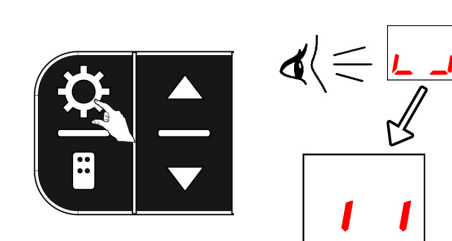The default capacity for storing remote controls is set to 50. Upon reaching this limit (i.e., 50 remotes learned), attempting to add the 51st remote will automatically overwrite the earliest entry (the 1st remote).

Multi-function buttons 3 — 04

Multi-function buttons 2 — 03

Multi-function buttons 1 — 02

Ignore the key value function — 01

Standard Functions - Single Key Cycle (Default) — 00

00	Standard Functions - Single Key Cycle (Default)
01	Ignore the key value function, all keys are valid, open-stop-close-cycle
02	Multi-function button 1 : No. 1 key controls the motor on-off cycle; No. 2 partial open function; No. 3 key warning light on and off control; No. 4 key remote lock function;
03	Multi-function button 2 : No. 1 to open the door; No. 2 key to stop; No. 3 to close the door; No. 4 key remote lock function;
04	Multi-function button 3 : No. 1 to open the door; No. 2 key to stop; No. 3 to close the door; No. 4 key CF function; ("CF" function means that pressing the 4th button will directly open the door without stopping, and it will directly execute the door opening action when closing the door)

3S

Release

Function enabled — **01**

Function disabled (Default) — **00**
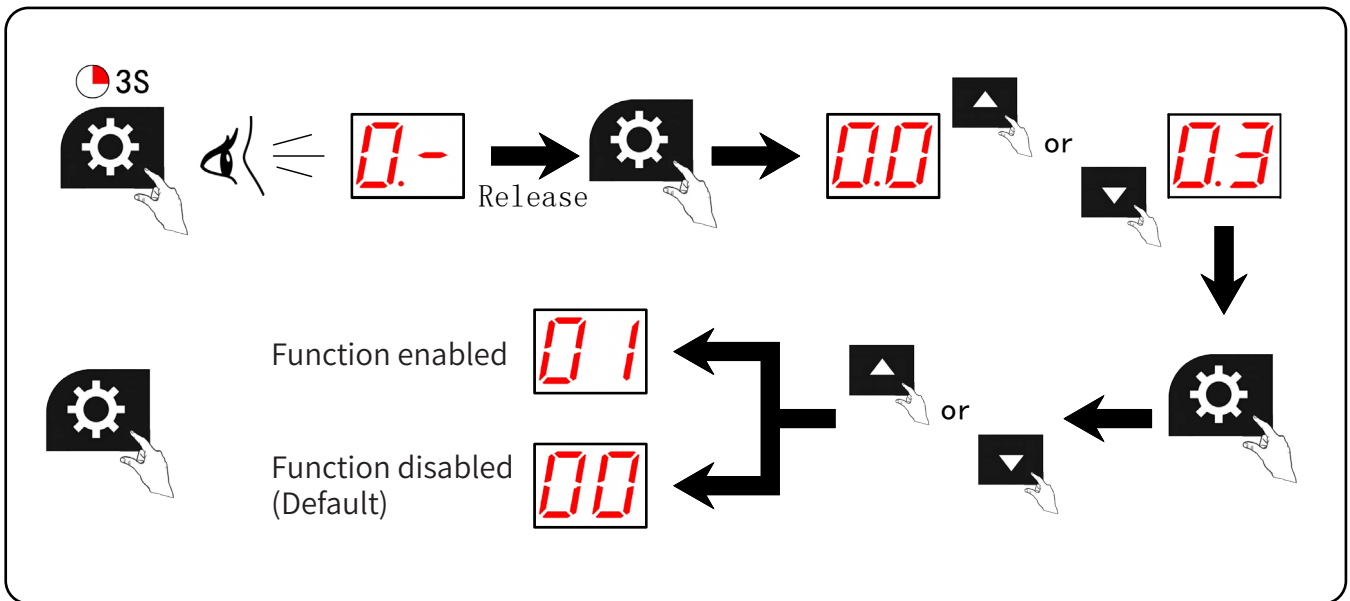
First, turn on the 4.0 automatic door-closing function, then turn on the 5.0 infrared function, and then turn on the 0.3 community function.

The operation logic is as follows:

1. Door opening process:
Remote control triggering is invalid, PB port triggering is invalid, button DOWN triggering is invalid, and the door opens normally to the open limit position.
Open limit position state.

2. When the door reaches the open limit position:
Remote control triggering - the door has no action; PB port triggering - the door has no action; DOWN button is invalid; only wait for the automatic door-closing function to trigger door closing; and when the open limit PB is triggered, the automatic door closing is invalid. After the PB is restored, the automatic door closing will start timing again.

3. Reactions during the door-closing process
Triggering the remote control during the door-closing process: the door reverses to the open limit position and waits again for the automatic door-closing to trigger.
Triggering the PB port during the door-closing process: the door reverses to the open limit position and waits again for the automatic door-closing to trigger.
Blocking the infrared during the door-closing process: the door reverses to the open limit position and waits again for the automatic door-closing to trigger.

1.0 Reversal position ignorance while obstruction
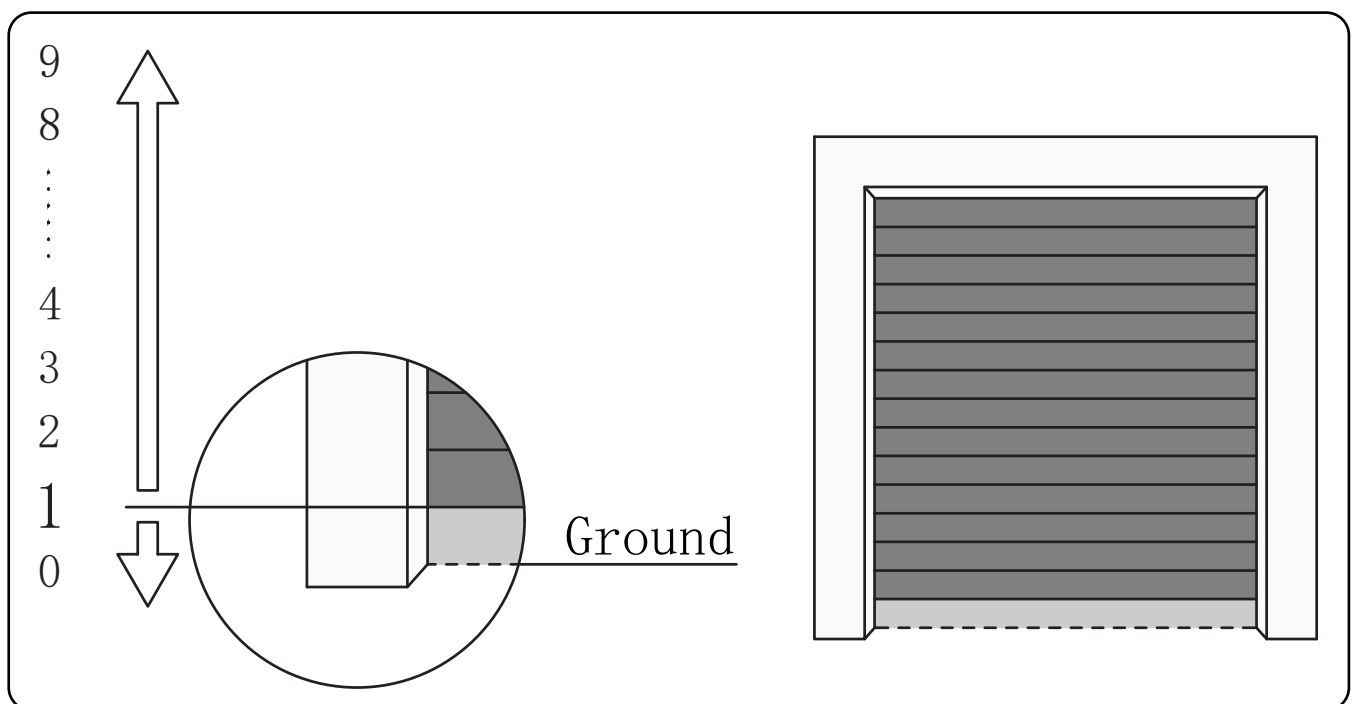
ⓘ Range: 1-9 cm (door ignores obstructions near the closed position).

ⓘ Use Case: ldeal for snowy environments.
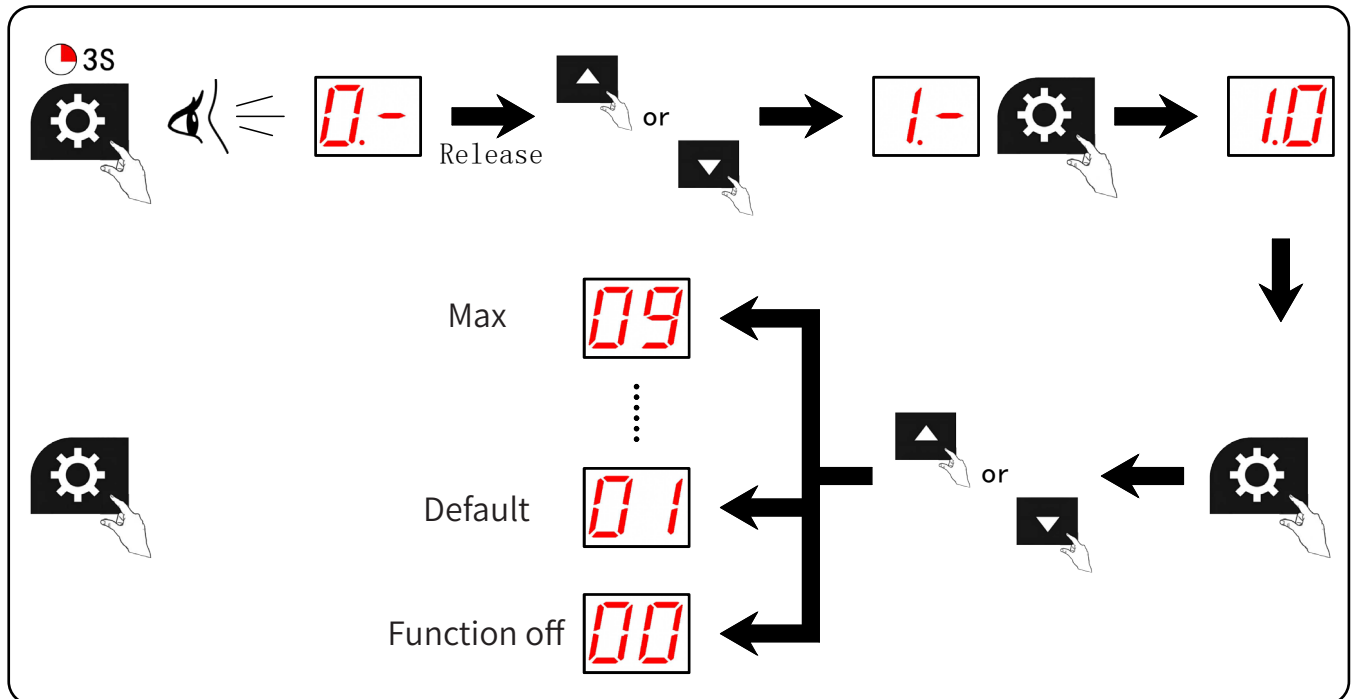
The motor stops immediately without reversing if an obstacle is detected while closing the door in the designated area.

2.0 Door closing speed adjustment
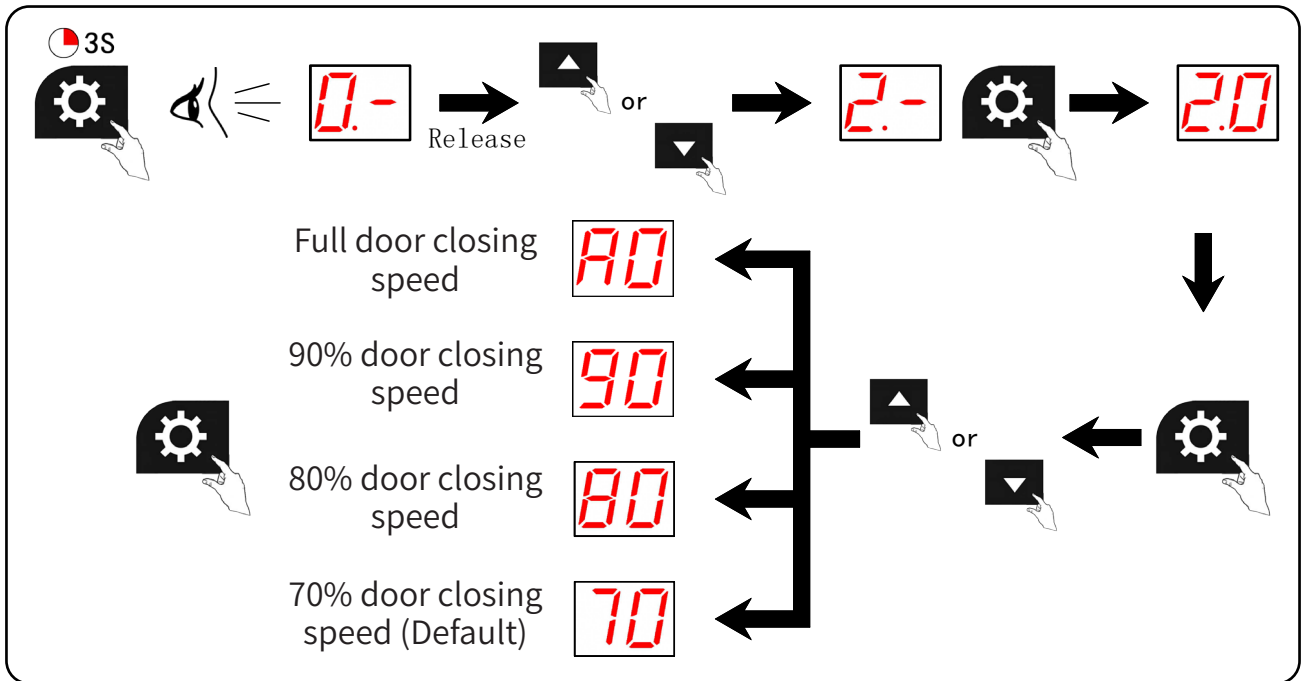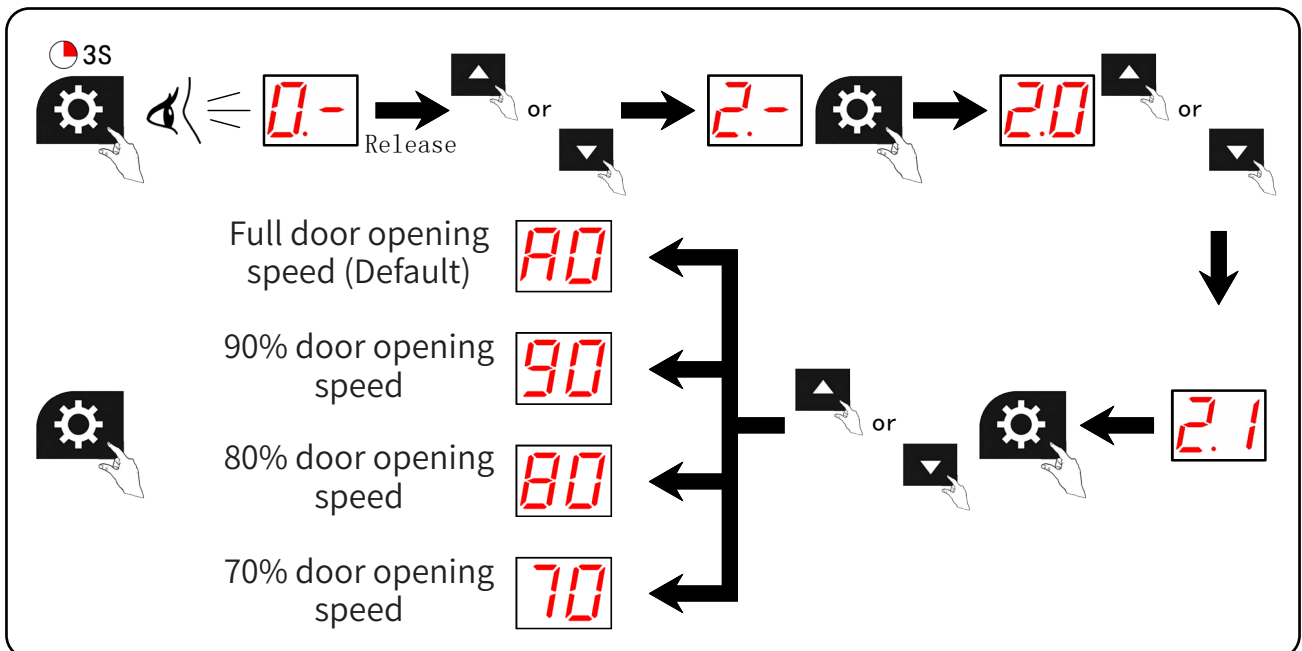
3S

Full door closing speed — **A0**

90% door closing speed — **90**

80% door closing speed — **80**

70% door closing speed (Default) — **70**

Release

or

2.1 Door opening speed adjustment

3S

Full door opening speed (Default) — **A0**

90% door opening speed — **90**

80% door opening speed — **80**

70% door opening speed — **70**

Release

or

2.2 Soft stop range adjustment (Door closing)

Short range of soft stop distance	**03**
Midium range of soft stop distance (Default)	**02**
Long range of soft stop distance	**01**

2.3 Soft stop range adjustment (Door opening)

Short range of soft stop distance	**03**
Midium range of soft stop distance (Default)	**02**
Long range of soft stop distance	**01**
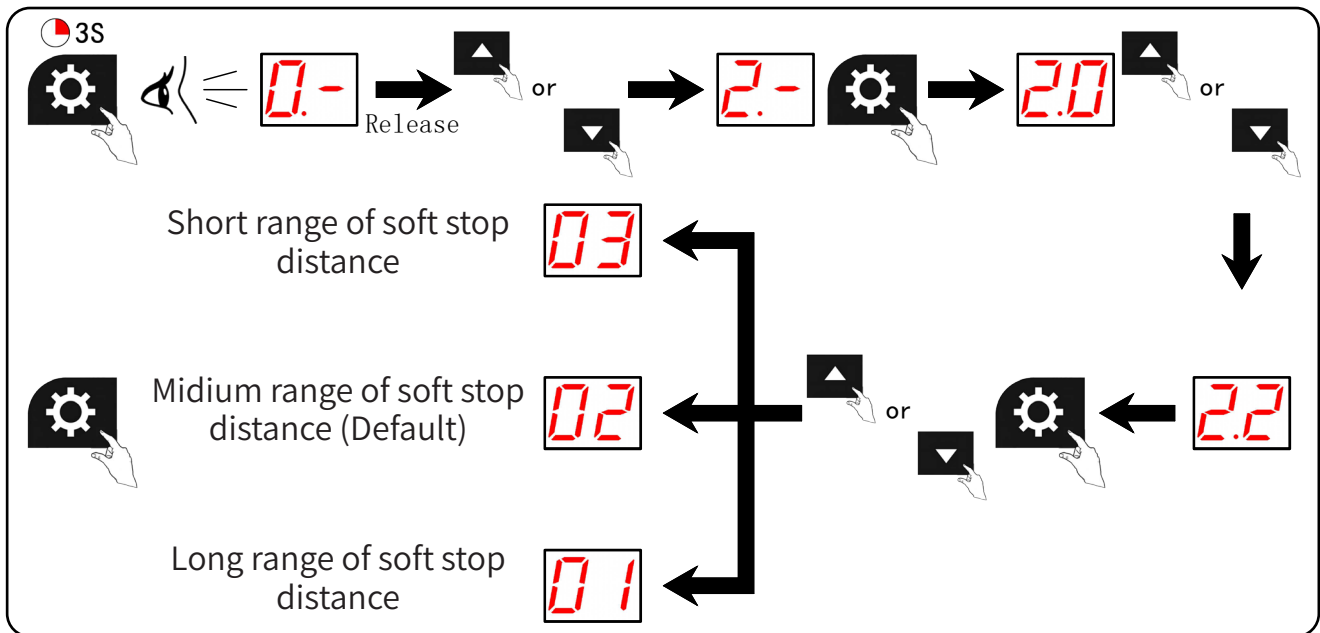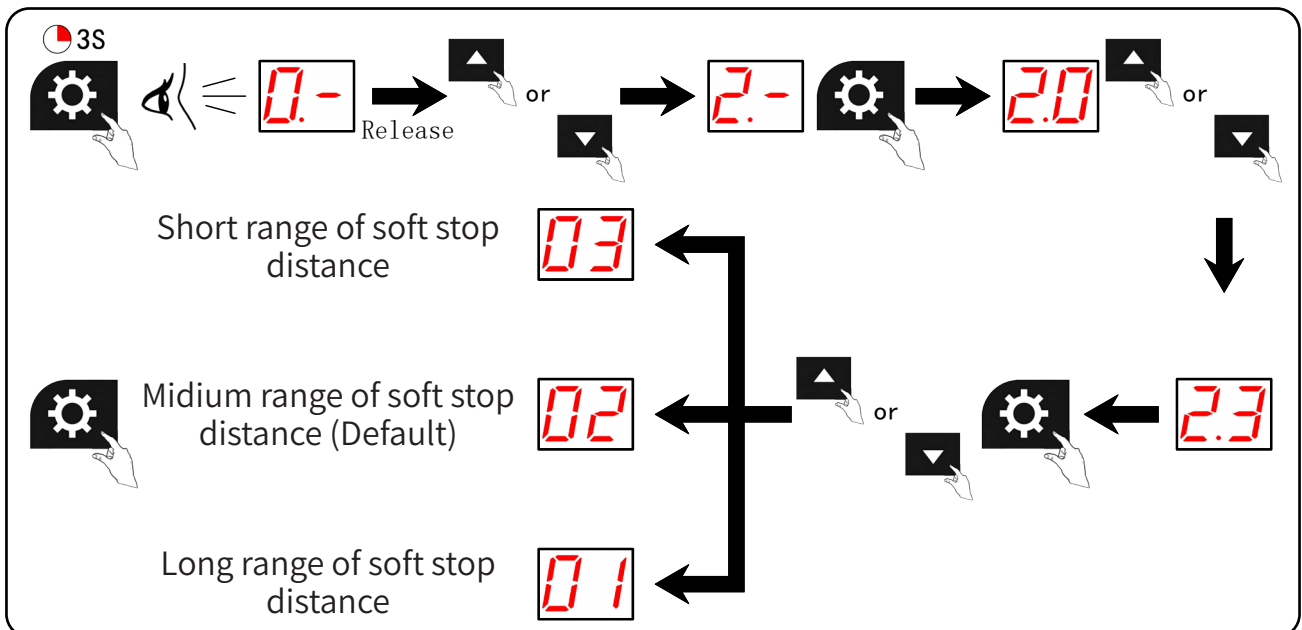
3.0 Soft stop time setting

ⓘ The slow stop time during motor operation sets the duration outside the soft stop zone to lessen impact on the door and motor.
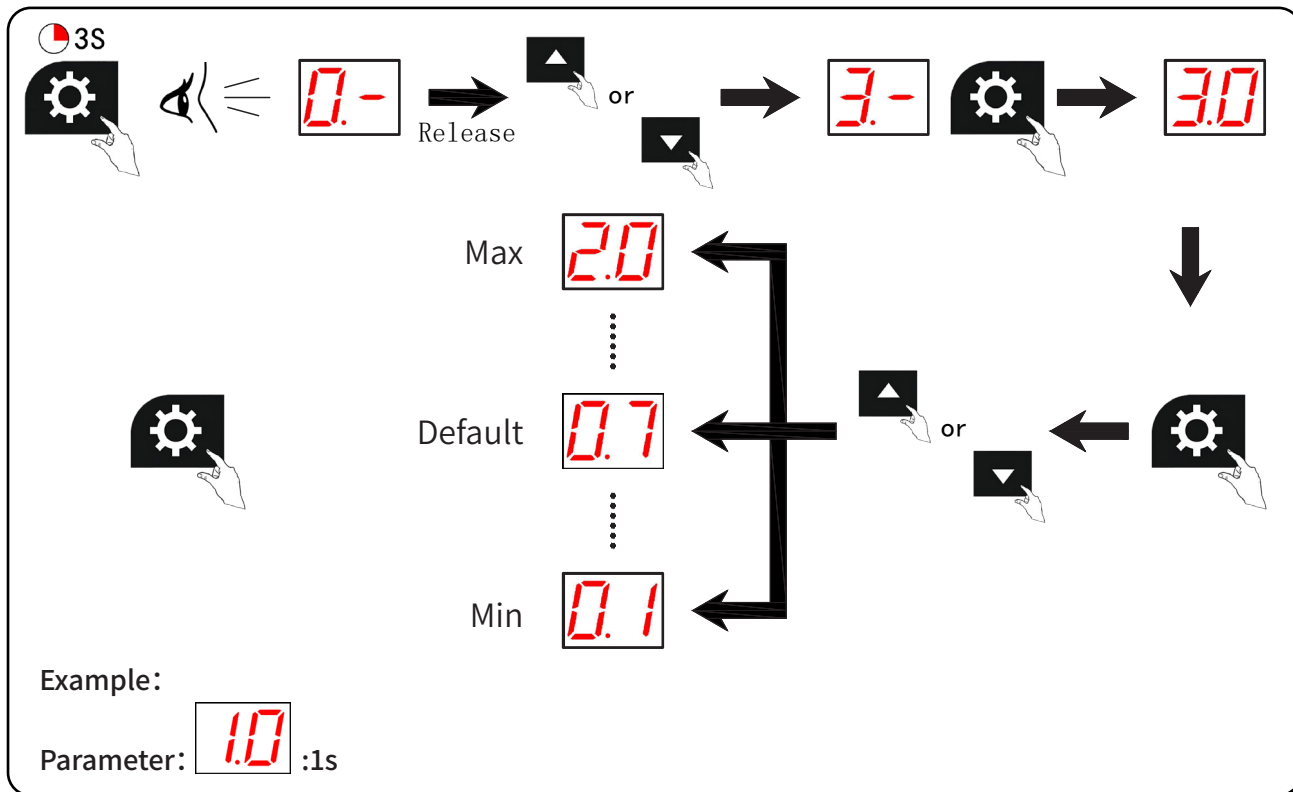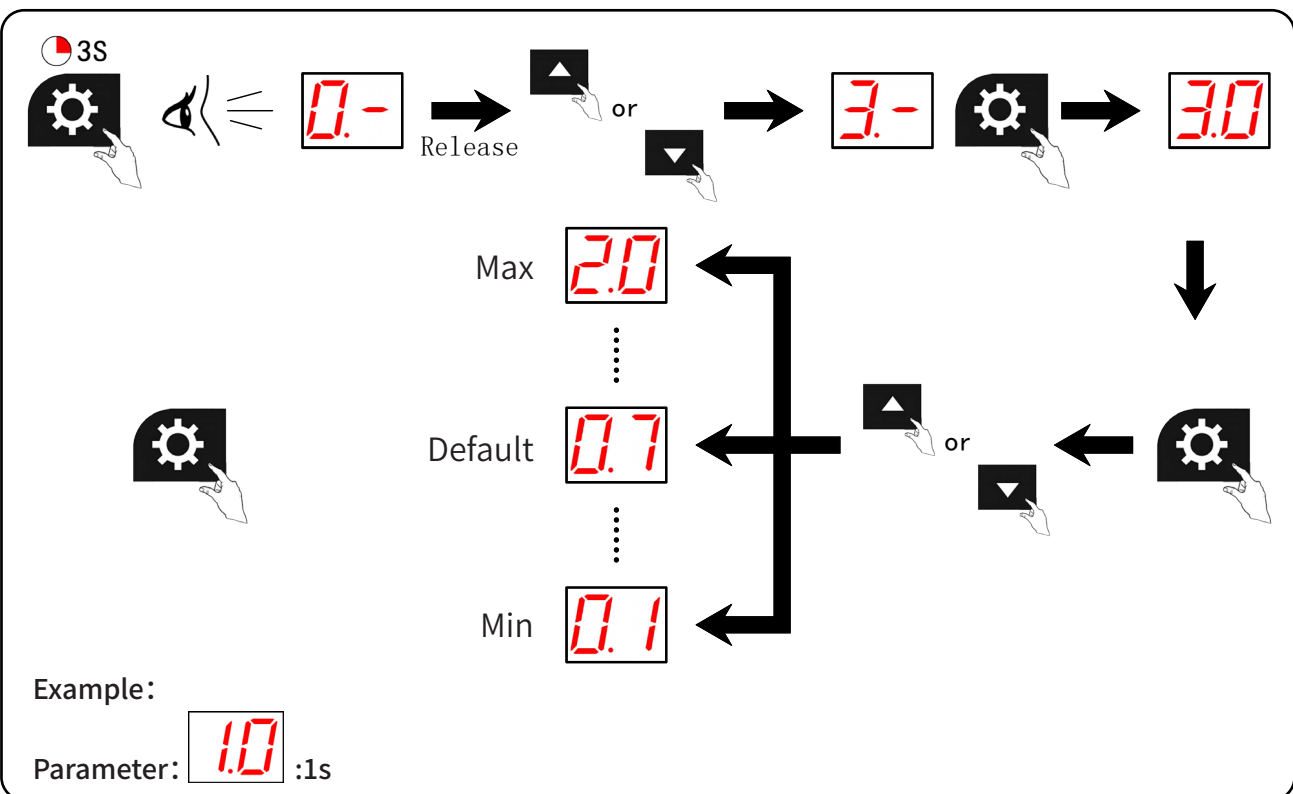
3S

0.- → Release → ▲ or ▼ → 3.- → 3.0

Max **2.0**

Default **0.7** ← ▲ or ▼

Min **0.1**

Example：
Parameter： **1.0** :1s

3.1 Soft start time setting

3S

0.- → Release → ▲ or ▼ → 3.- → 3.0

Max **2.0**

Default **0.7** ← ▲ or ▼

Min **0.1**

Example：
Parameter： **1.0** :1s
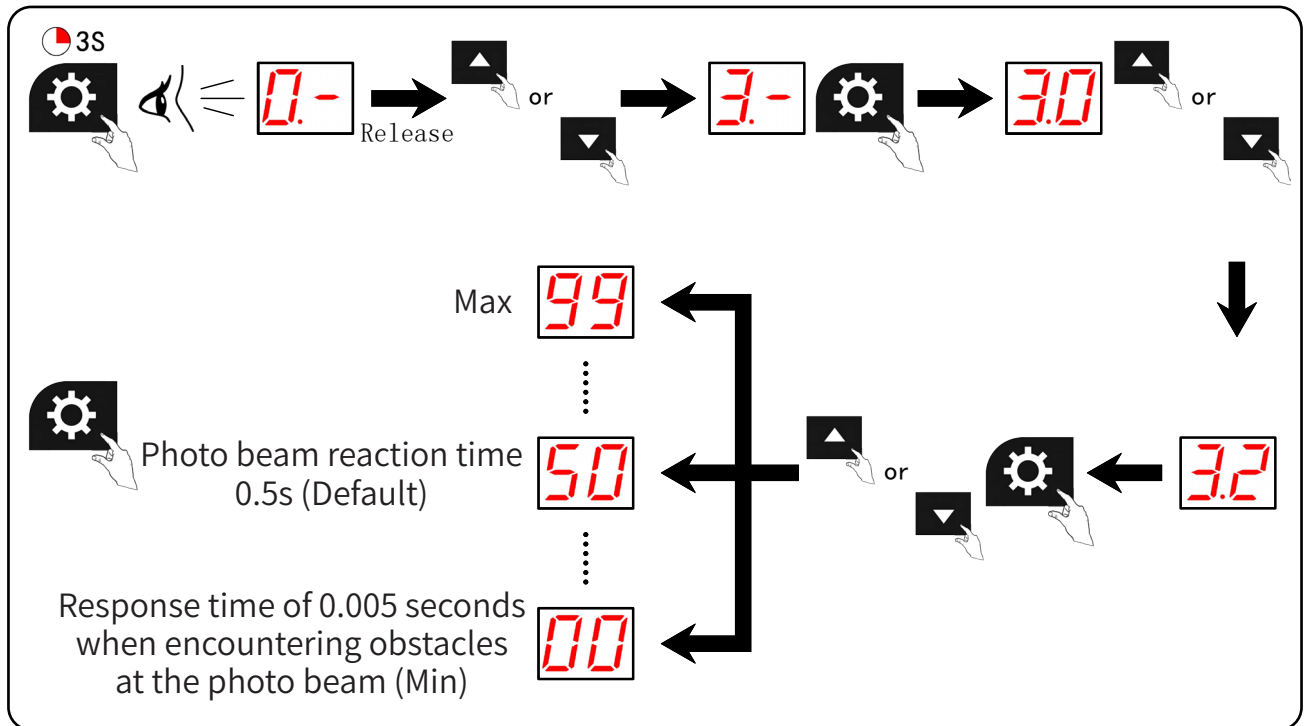
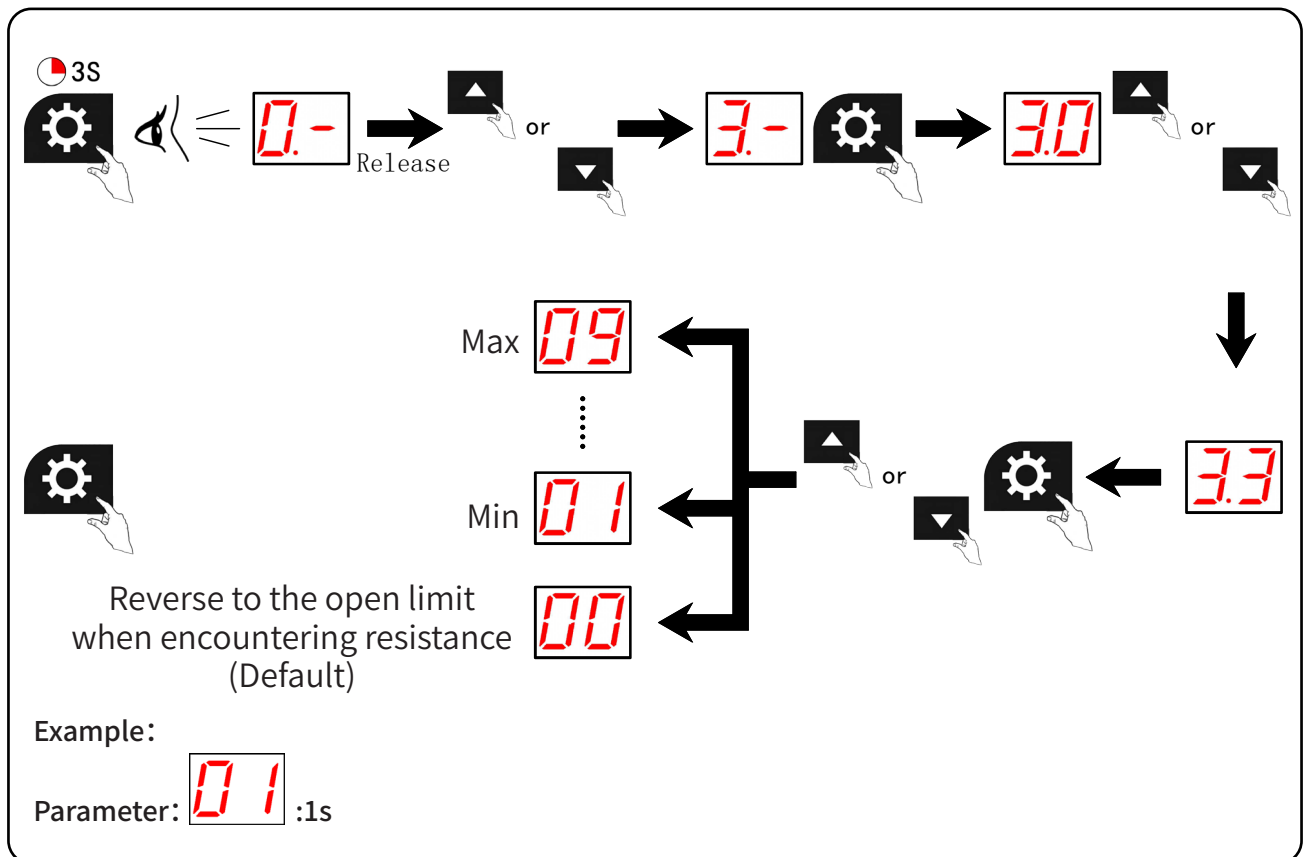**3.2** Photo beam obstruction reversal sensitive adjustment

ⓘ The time setting range of this parameter is : 0.01 seconds-0.99 seconds.

ⓘ According to the actual situation of the door body or the needs of the scene, the reaction time of the photo beam is adjusted.

3.3 Reversal running time setting (After the resistance rebound)

ⓘ **Option 00: Door stops at open limit upon reversal (Default).**

ⓘ **Options 1-9: Door reverses for 1-9 seconds**

Max `09`

Min `01`

Reverse to the open limit when encountering resistance (Default) `00`

Example:
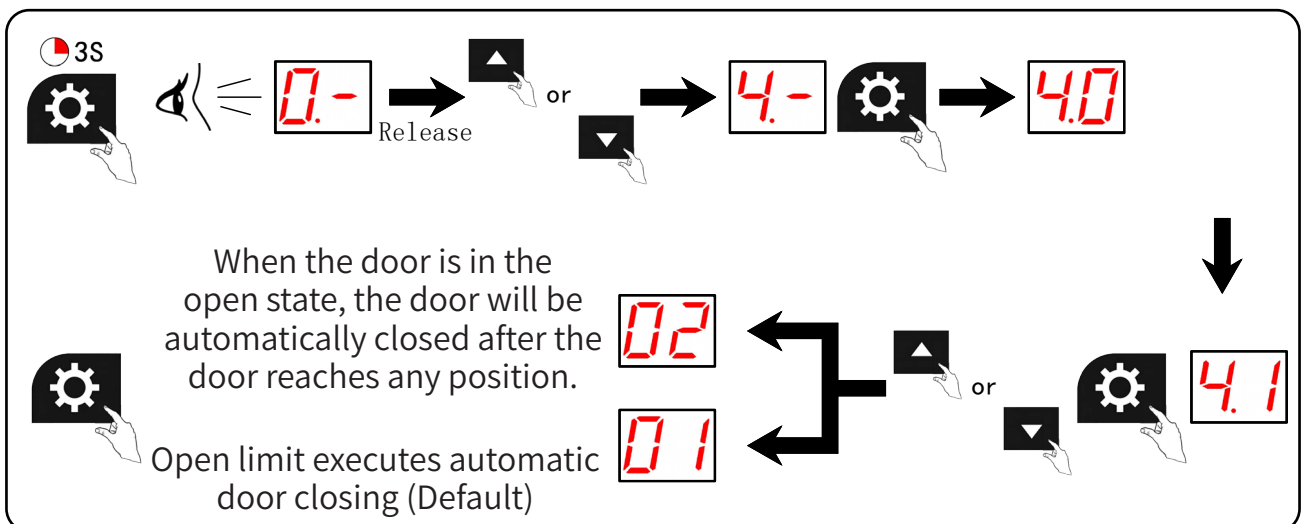
Parameter: `01` :1s

4.0 Automatic closing function

ⓘ The time setting range of this parameter is : 0 second - 135 seconds.

ⓘ Prerequisite: Photo beam function must be enabled.

ⓘ Behavior: Obstructions pause the timer, which resumes after clearance.

Max **09**

Min **01**

Automatic door closing function off (Default) **00**

Example:

Parameter: **01** :15s
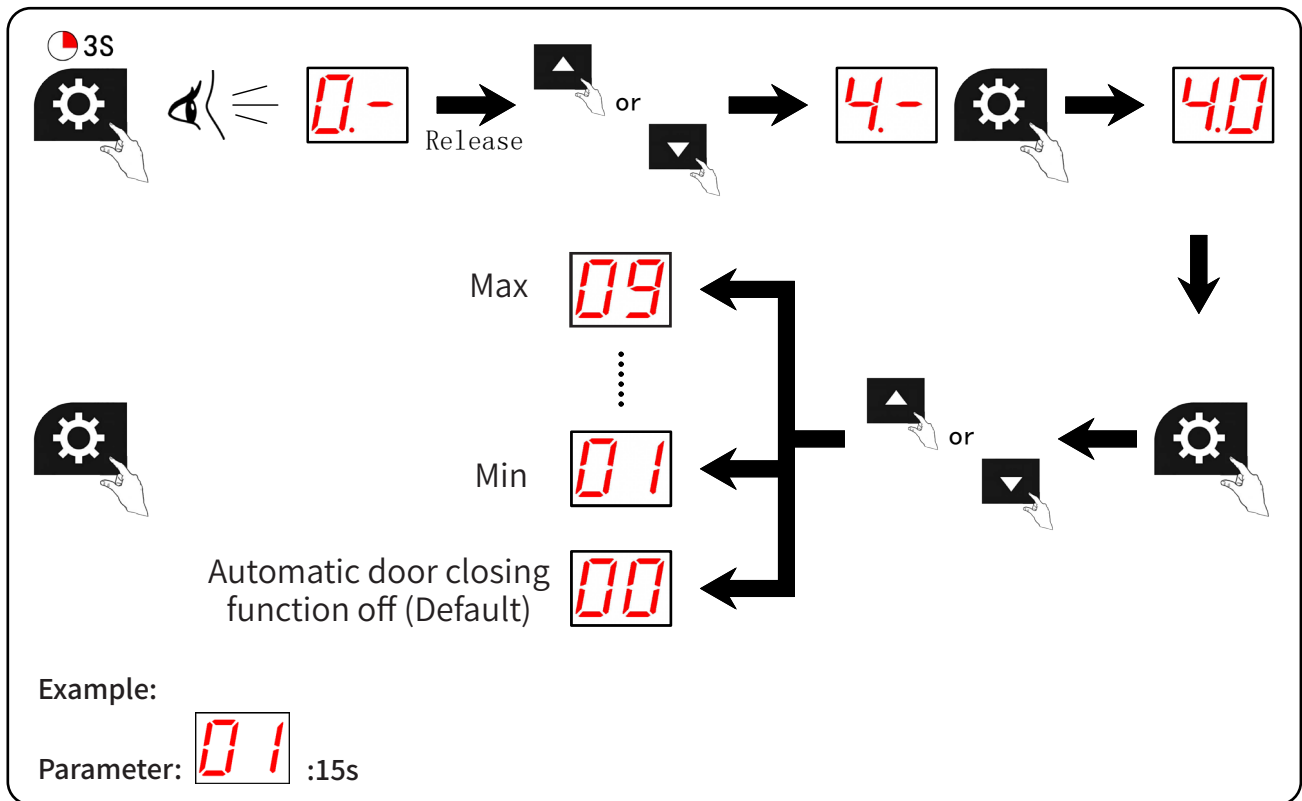
4.1 Automatic closing condition function setting

ⓘ The automatic door closing condition is only used with the 4.0 automatic door closing function.

When the door is in the open state, the door will be automatically closed after the door reaches any position. **02**

Open limit executes automatic door closing (Default) **01**

5.0 Wired photo beam function ON/OFF setting

ⓘ Connection Description: PE-GND port

🕒 3S

⚙️ ◀《≡ **0.-** Release → ▲ or ▼ → **5.-** ⚙️ → **5.0**

Photo beam function is enabled.
*Requires a normally closed (NC) connection → **01**

⚙️

Photo beam function is not enabled (Default) → **00** ← ▲ or ▼ ← ⚙️
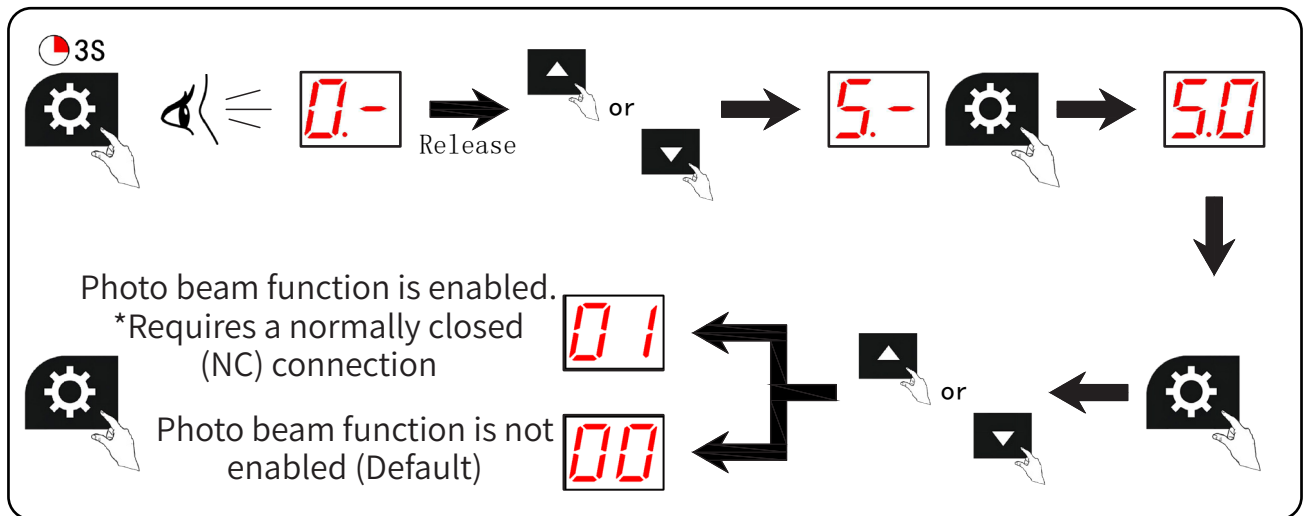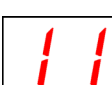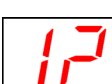
6.0 Partial open function setting

Parameter **01** — **12** :

ⓘ After setting the partial open function, please set the 0.2 menu to use the remote control.

🕒 3S

⚙️ ◀《≡ **0.-** Release → ▲ or ▼ → **6.-** ⚙️ → **6.0**

Partial open to 160cm → **12**

⋮

Partial open to 40cm → **06**

Partial open to 8cm → **03** ← ▲ or ▼ ← ⚙️

⋮

Partial open to 2cm → **01**

The Partial Open / Height function is not enabled (Default) → **00**

00	The Partial Open / Height function is not enabled (Default)
01	Partial open to 2cm
02	Partial open to 4cm
03	Partial open to 8cm
04	Partial open to 12cm
05	Partial open to 20cm
06	Partial open to 40cm
07	Partial open to 60cm
08	Partial open to 80cm
09	Partial open to 100cm
10	Partial open to 120cm
11	Partial open to 140cm
12	Partial open to 160cm

6.1 PB port function setting

ⓘ **Connection Description: PB-GND port.**

ⓘ **Port performs the pulse trigger function.**

ⓘ **When using the 04 Partial open function, the parameters in menu 6.0 need to be set.**

The process of closing the door triggers the execution of opening the door (only the trigger is valid during the process of closing the door) — **05**

Partial open function — **04**

Only perform door opening function — **03**

Close the door at the open limit, open the door at the close limit, and only open the door when it stops at other positions — **02**

Switch stop cycle function (Default) — **01**
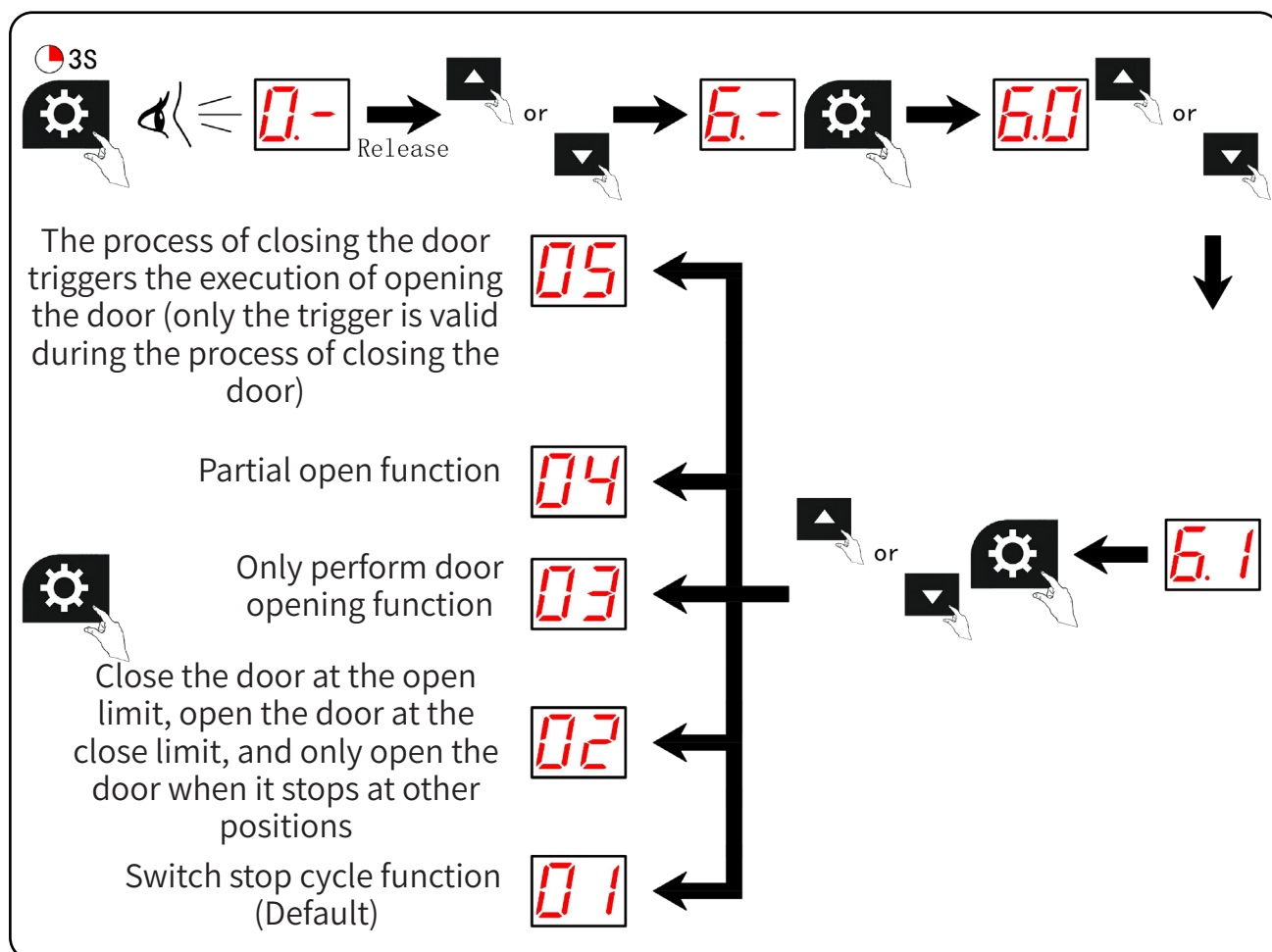
6.2 Flash light port function setting

ⓘ **Connection Description: FLA-GND port.**
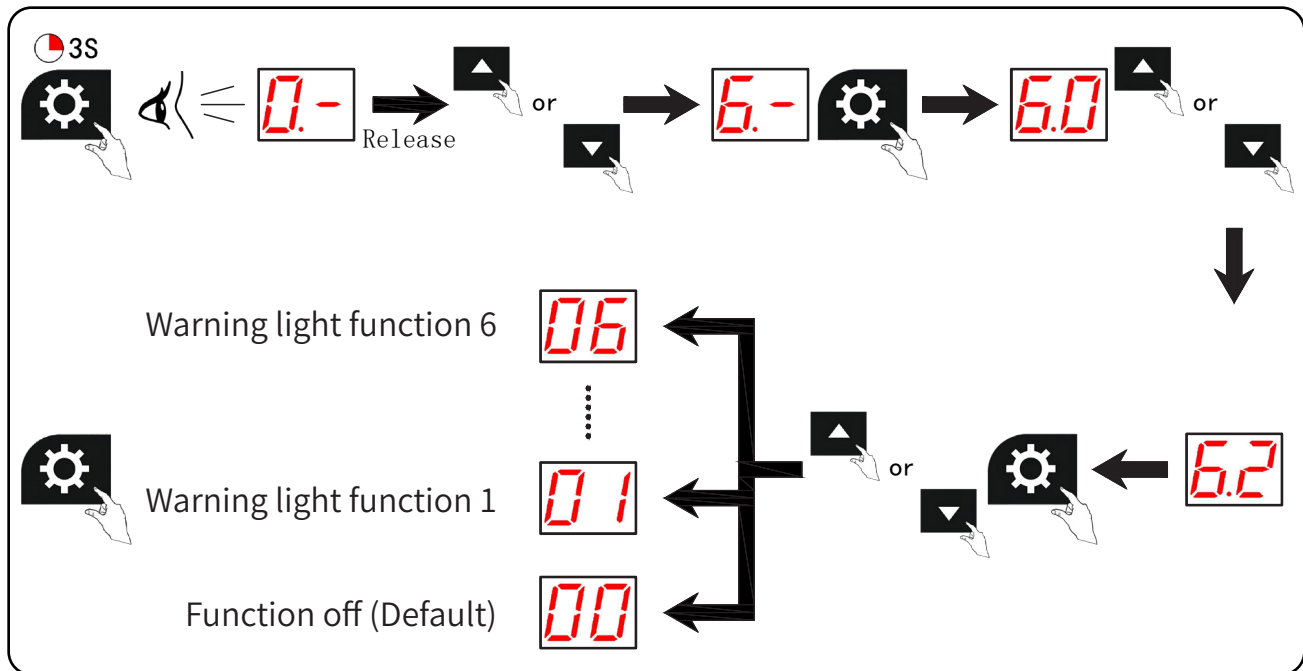
Standard flash light features

ⓘ **Light Operation: Flashes during activity; turns off when inactive.**

ⓘ **Flash Rate: Controlled by parameter 9.4 (Warning Light Frequency).**

CODE	Function	Close limit state	Open limit state	Alert status	Operating status
00	standard application (Default)	OFF	OFF	OFF （without warning）	Flashing^2

More functions for flash light

ⓘ **1. Warning light duration is set by param 9.3.**

ⓘ **2. Flashing frequency is set by param 9.4.**

ⓘ **3. Close-limit light state is set by param 9.5.**

CODE	Function	Close limit state[3]	Open limit state	Alert status[1]	Operating status
01	Warning light function 1	OFF	OFF	Flashing[2]	ON
02	Warning light function 2	OFF	OFF	Flashing	Flashing
03	Warning light function 3	OFF	OFF	ON	ON
04	Warning light function 4	OFF	OFF	Flashing	OFF
05	Warning light function 5	OFF	ON	Flashing	OFF
06	Warning light function 6	OFF	ON	OFF	OFF

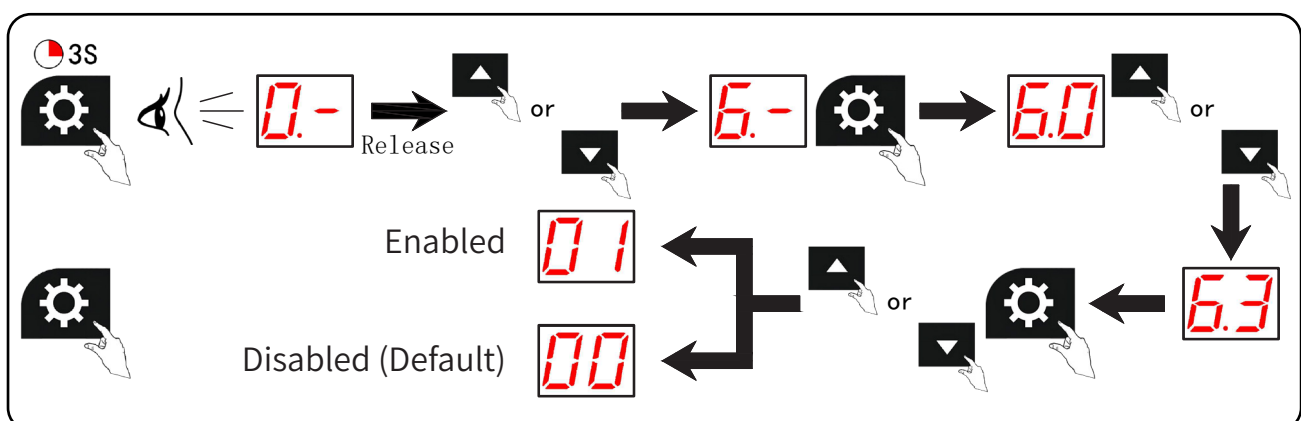## 6.3 Wired electronic lock function setting

ⓘ Connect the wired electronic lock to the E-lock port of the motor.

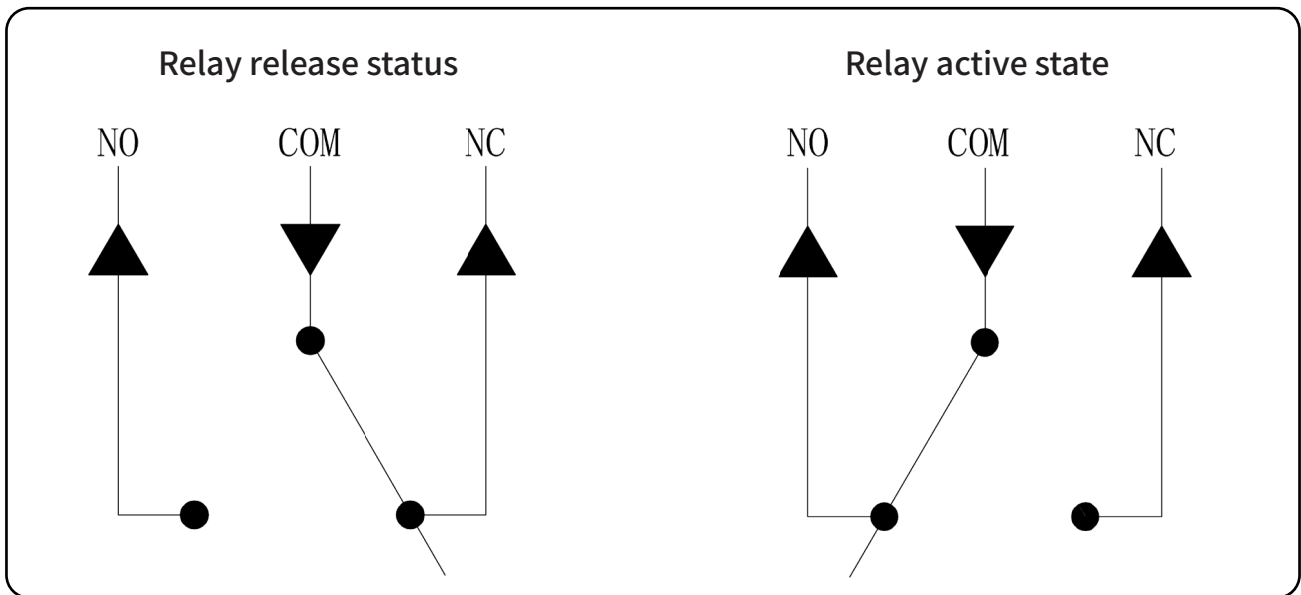Red: L +   Gray: L - IN

Black: L -   Pink: L - OUT

ⓘ Once the wired electronic lock is properly connected and the door is fully closed, the lock cylinder extends. (Reverse connect of the lock may damage the door or lock upon opening; ensure correct wire connection order.)
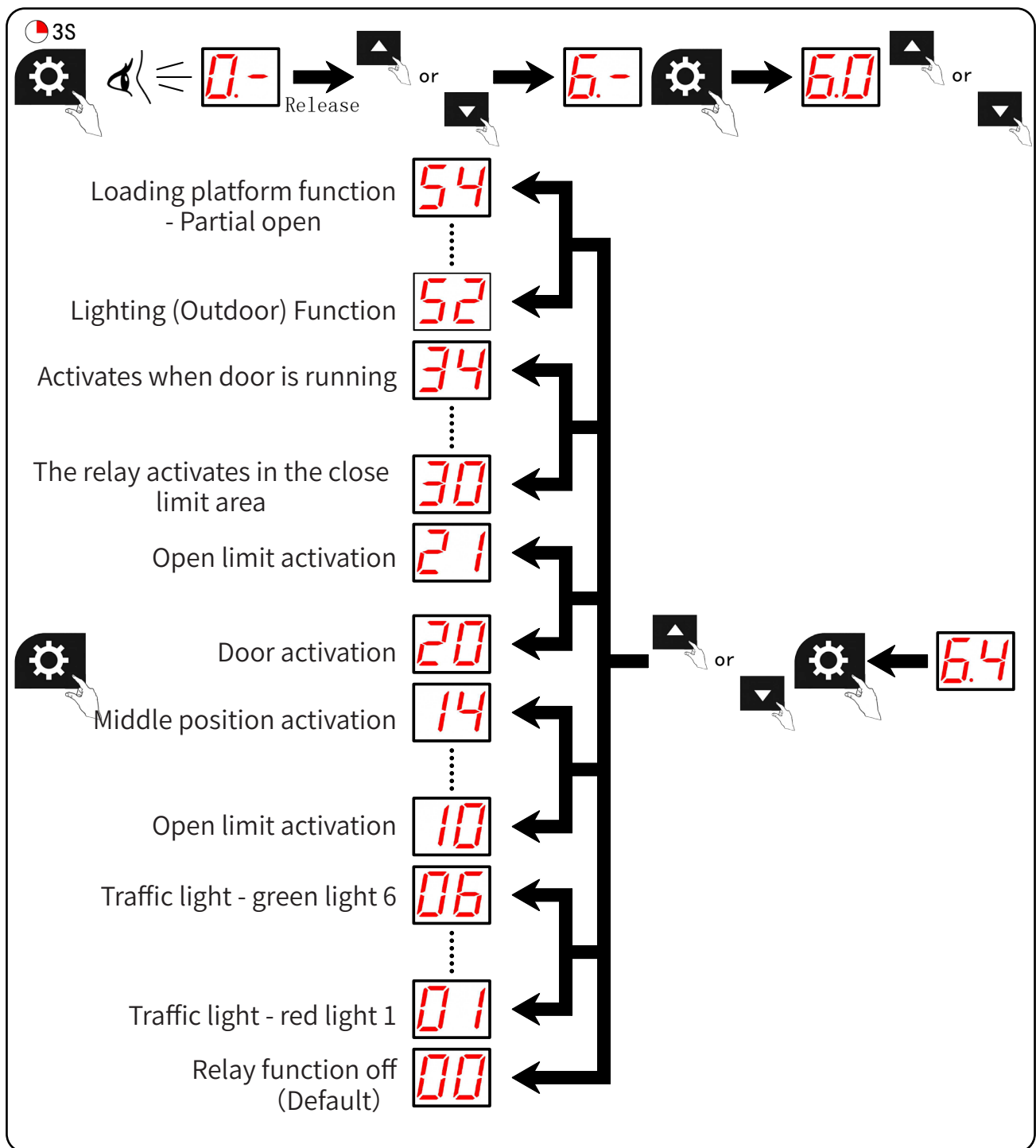
6.4 Relay function setting

ⓘ Connection instructions： NO-COM-NC port.

ⓘ Menu A.0/A.1/A.2/A.3 is visible when using relay traffic light function group.

ⓘ Menu A.4 is visible when using function 30 in relay (relay active in close limit zone).

ⓘ Menu A.5 is visible when using function 31 in relay (relay active in open limit zone).

ⓘ Relay status description：

Loading platform function - Partial open — `54`

Lighting (Outdoor) Function — `52`

Activates when door is running — `34`

The relay activates in the close limit area — `30`

Open limit activation — `21`

Door activation — `20`

Middle position activation — `14`

Open limit activation — `10`

Traffic light - green light 6 — `06`

Traffic light - red light 1 — `01`

Relay function off (Default) — `00`

Code	Function	Function Description
00	Relay function off (Default)	No function - Relay released state

Traffic light function description::

ⓘ 1: Pre-warning status is set by the pre-warning time in parameter A.0 (Relay A traffic light).

ⓘ 2: Flashing frequency is set by parameter A.2 (Relay A traffic light frequency).

ⓘ 3: Close limit state is set by parameter A.3 (Relay A traffic light delay off).

Code	Traffic light function	Close limit state[3]	Open limit state	Alert status[1]	Operating status
01	Traffic light - red light1	OFF	OFF	Flashing[2]	ON
02	Traffic light - red light2	OFF	OFF	Flashing	Flashing
03	Traffic light - red light3	OFF	OFF	ON	ON
04	Traffic light - red light4	OFF	OFF	Flashing	OFF
05	Traffic light - green light5	OFF	ON	Flashing	OFF
06	Traffic light - green light6	OFF	ON	OFF	OFF

Door Position Function Group

ⓘ **Relay triggering based on door position.**
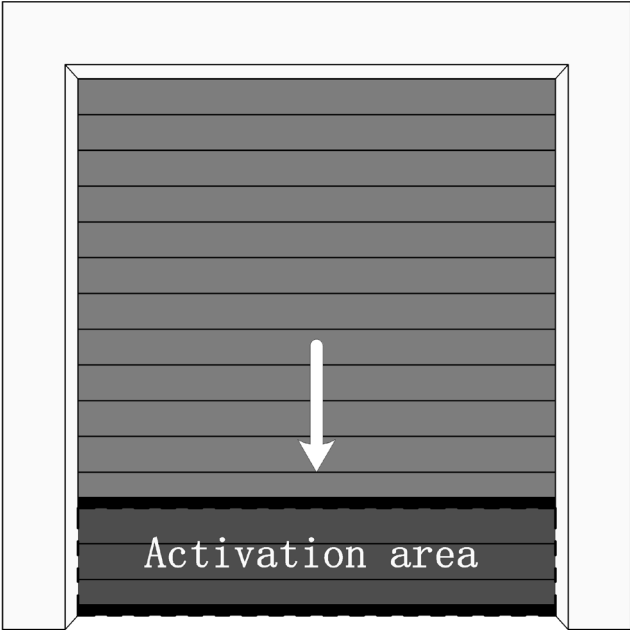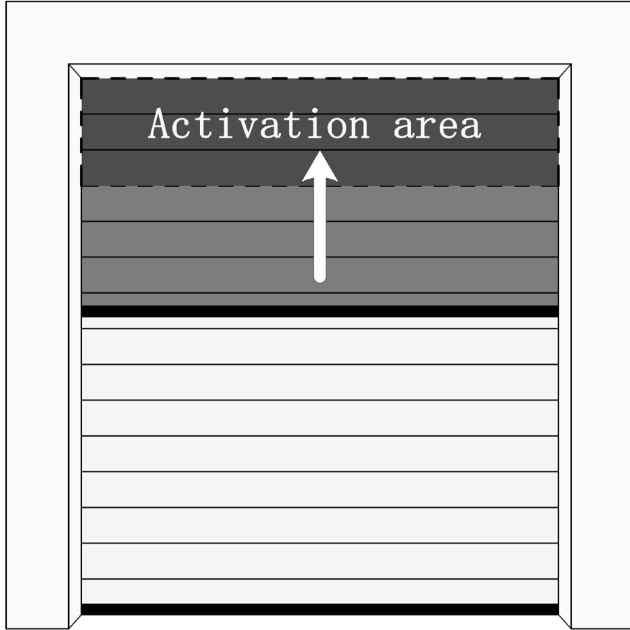
Code	Function	Close imit state	Open limit state	Centre position	Operating status
_10_	Open limit activation	OFF	ON	ON	OFF
_11_	Close limit activation	ON	OFF	OFF	OFF
_12_	Open limit closed	ON	OFF	OFF	ON
_13_	Close limit closed	OFF	ON	ON	ON
_14_	Middle position activation	OFF	OFF	ON	OFF

Pulse function group

Code	Function	Function Description
_20_	Door activation	Each time the motor executes a door open, the relay activates for one second
_21_	Open limit activation	After the motor opens the door and reaches the open limit, the relay is activated for two seconds

Gate Runtime Function Group

ⓘ **Relay triggering based on the door movement state**

Code	Function	Function Description
30	The relay activates in the close limit area	When the door travel limits below the set position, the relay activates. The position at which the relay activates can be set using parameter A.4. Activation area
31	The relay activates in the open limit area	When the door travel limits above the set position, the relay activates. The position at which the relay activates is programmable using parameter A.5. Activation area

Code	Function	Function Description
32	Activation with door open	When the door is open and running, the relay is activated
33	Activate with door closed	When the door body is closed, the relay is activated
34	Activates when the door is running	When the door is opened or closed, the relay is activated

Add-on function group

ⓘ **Relay triggering based on the door movement state**

Code	Function	Function Description
52	Lighting (outdoor) function	The relay activates when there is a door open command and remains active for 2 minutes at the open limit.
53	Loading platform function - fully open	The relay establishes communication with the dock leveler. Doors are fully open during dock leveler operations.
54	Loading platform function - partial door	The relay establishes communication with the dock leveler. Doors are in the partial open position when the leveler is in operation.

7.0 Courtesy light delay off function setting

ⓘ Parameter range: 1-9 minutes.

ⓘ Used to set the delay time for the courtesy light to turn off after the motor stops running.
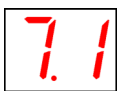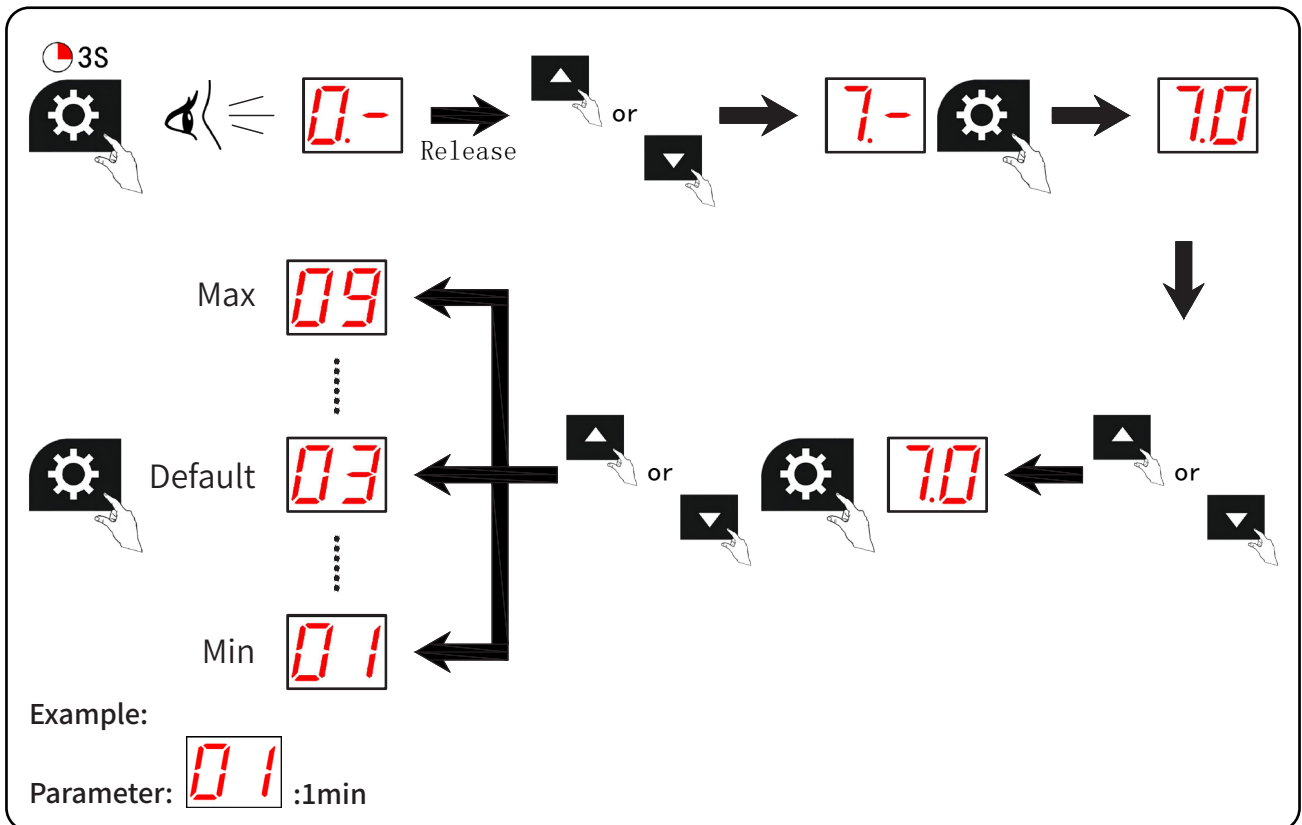
7.1 Restore factory setting

ⓘ All settings are set to factory settings! In addition to the cumulative running times of the motor and the number of maintenance alarms.

ⓘ After restoring the factory settings, power off the system for 1 minute and then power on again.
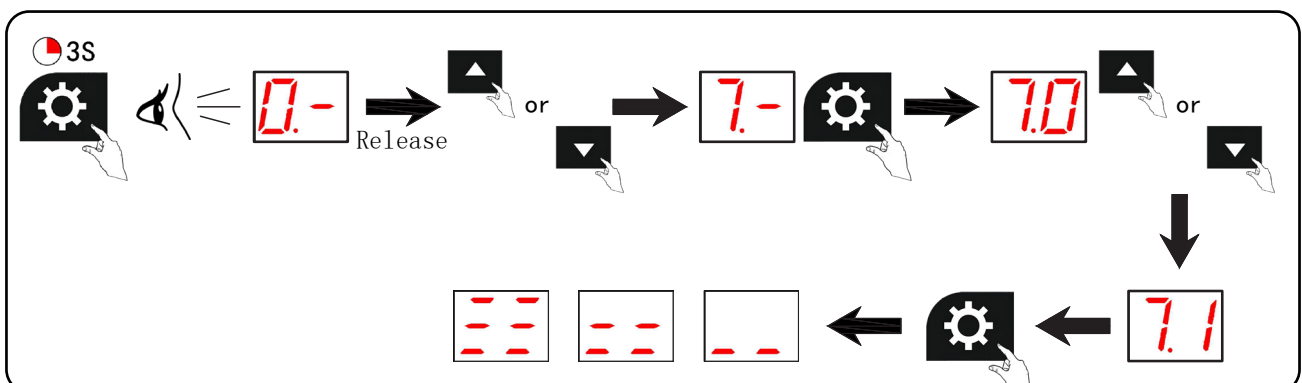
7.2 Customer version inquiry

ⓘ This function can query the customer code.
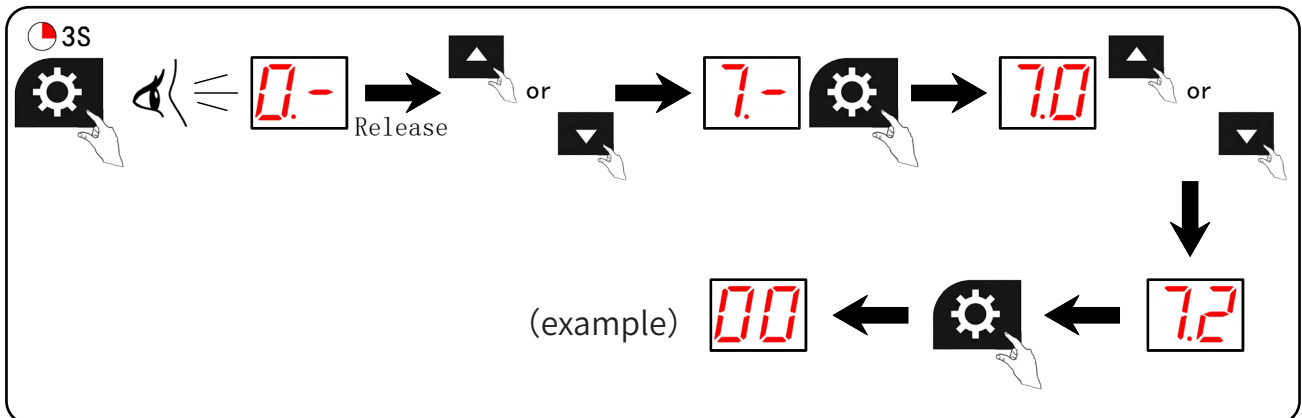
(example)

7.3 Software version inquiry

ⓘ This function can query the hardware versions of the control module, encoder module, power limit module and inverter module.
ⓘ Example: Display in the order of A0-10-C0-b0.

(example)
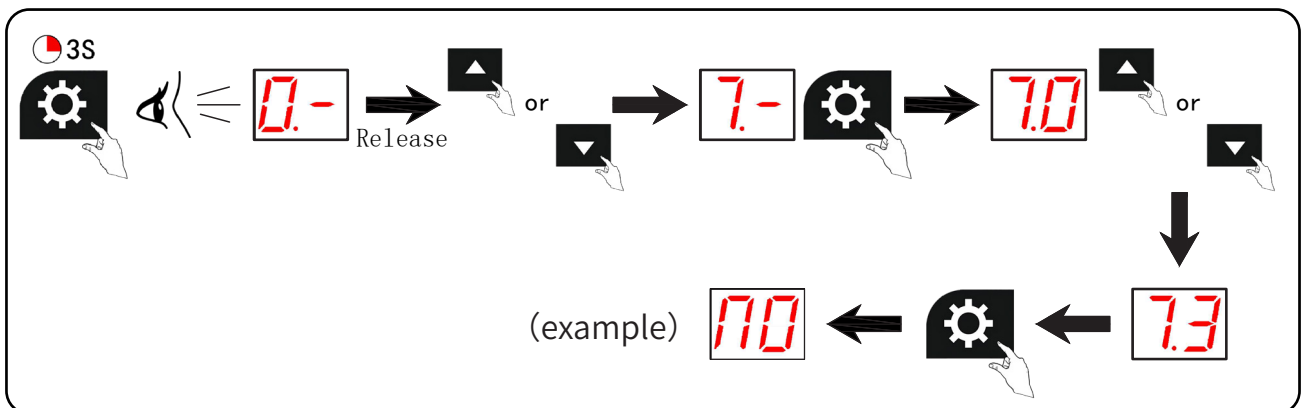
7.4 Motor running cycles inquiry

ⓘ This function can query the accumulative running times of the motor.
ⓘ The accumulative running times of the motor will not be cleared after the motor is restored to factory settings.
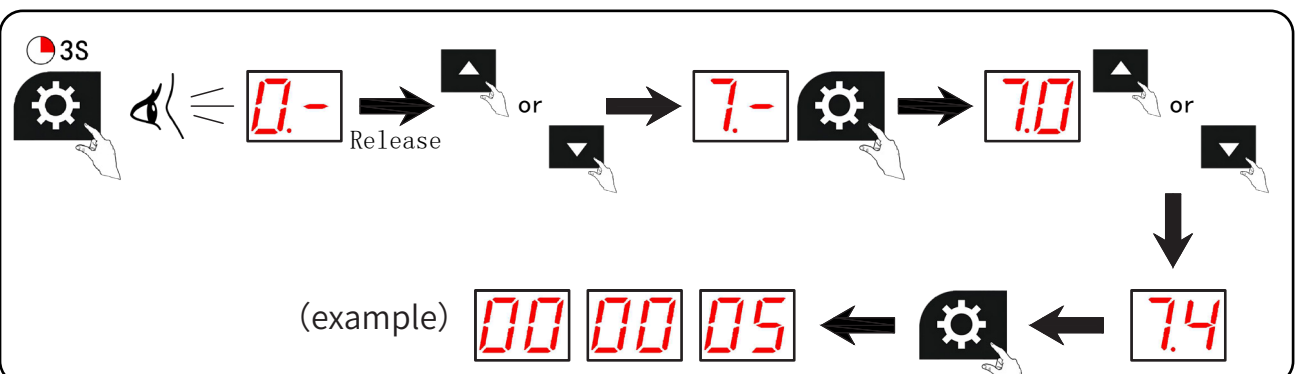
(example)

7.5 Inquiry of the latest 4 fault codes of the motor

ⓘ This function can query the last four fault codes of the motor.

8.0 Maintenance alarm times setting

ⓘ Once the maintenance alarm cycle limit is reached, the motor switch door's digital tube will show a prompt code **CA** . Reset by re-entering menu 8.0 to set the maintenance alarm level.

ⓘ Motor behavior post-maintenance alarm limit is set by the corresponding parameter **8.1** .

Maintenance alarm times 5 times (only for test function) **t**

Max **20**

Default **00**

Example:

Parameter: **05** :5*500=2500 times
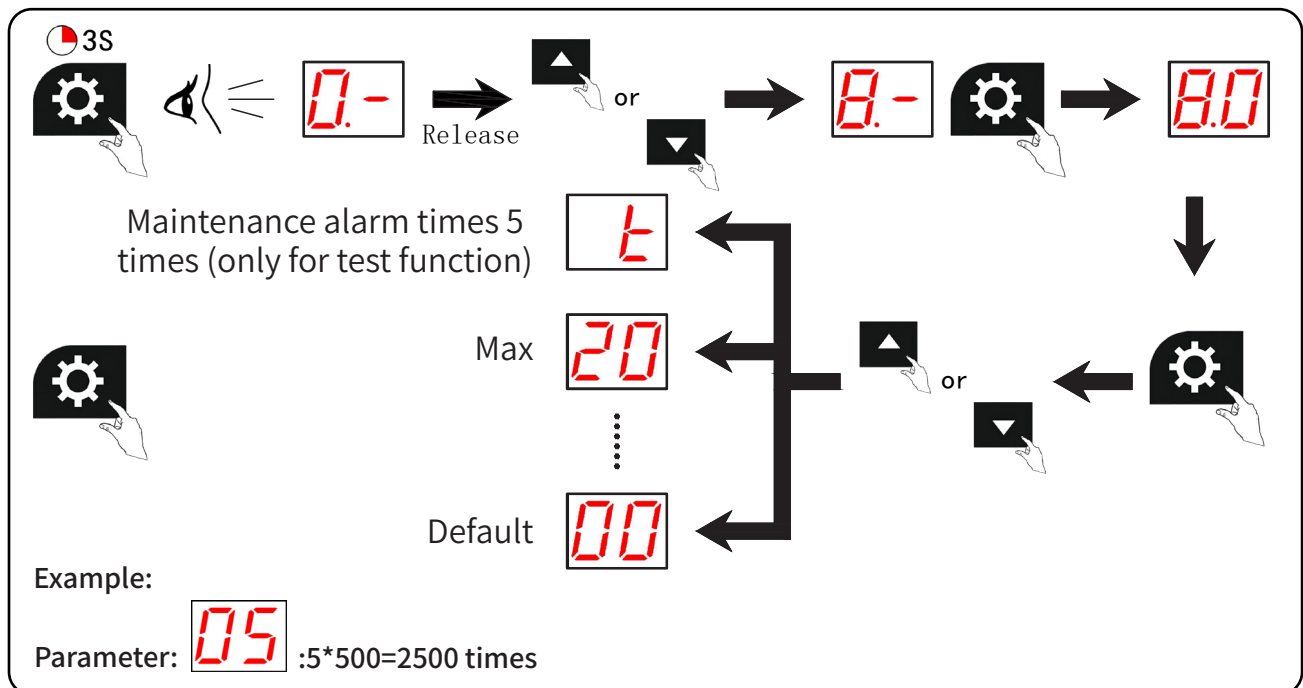
8.1 Maintenance alarm times inquiry

ⓘ The number of maintenance alarms will not be cleared after the motor is restored to factory settings.

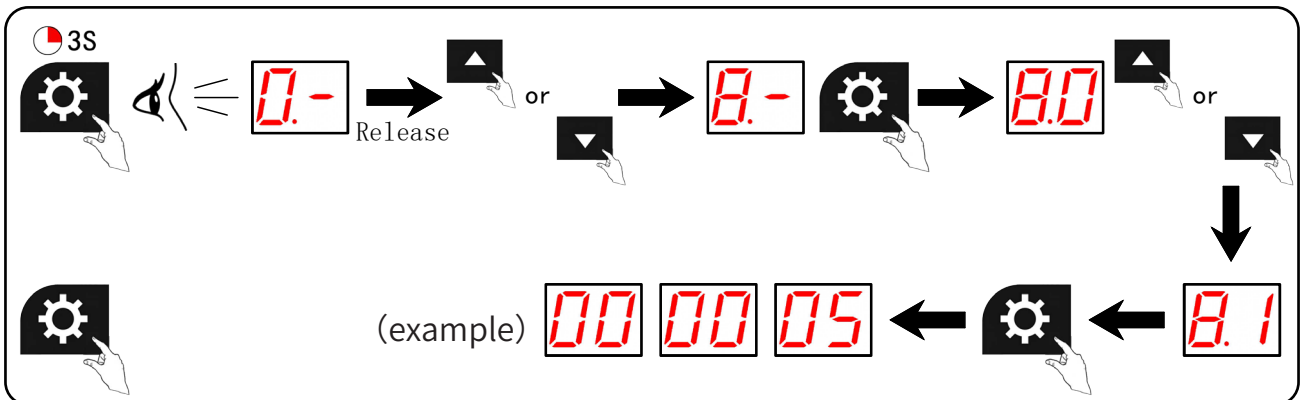ⓘ After the maintenance of the door body is completed, the maintenance personnel need to re-enter the menu to set the maintenance times, and the number of motor maintenance alarms will start counting again.

9.1 Transmitter lock function setting

ⓘ The remote controller control will be locked after the function is turned on. Can be unlocked and locked via this menu or the remote control receiver

ⓘ Displayed when the remote lock is locked `Lr` ,Show when unlocked `rL`.

9.2 Pre-warnning time setting before door closing

ⓘ The time setting range of this parameter is : 0 seconds-9 seconds.
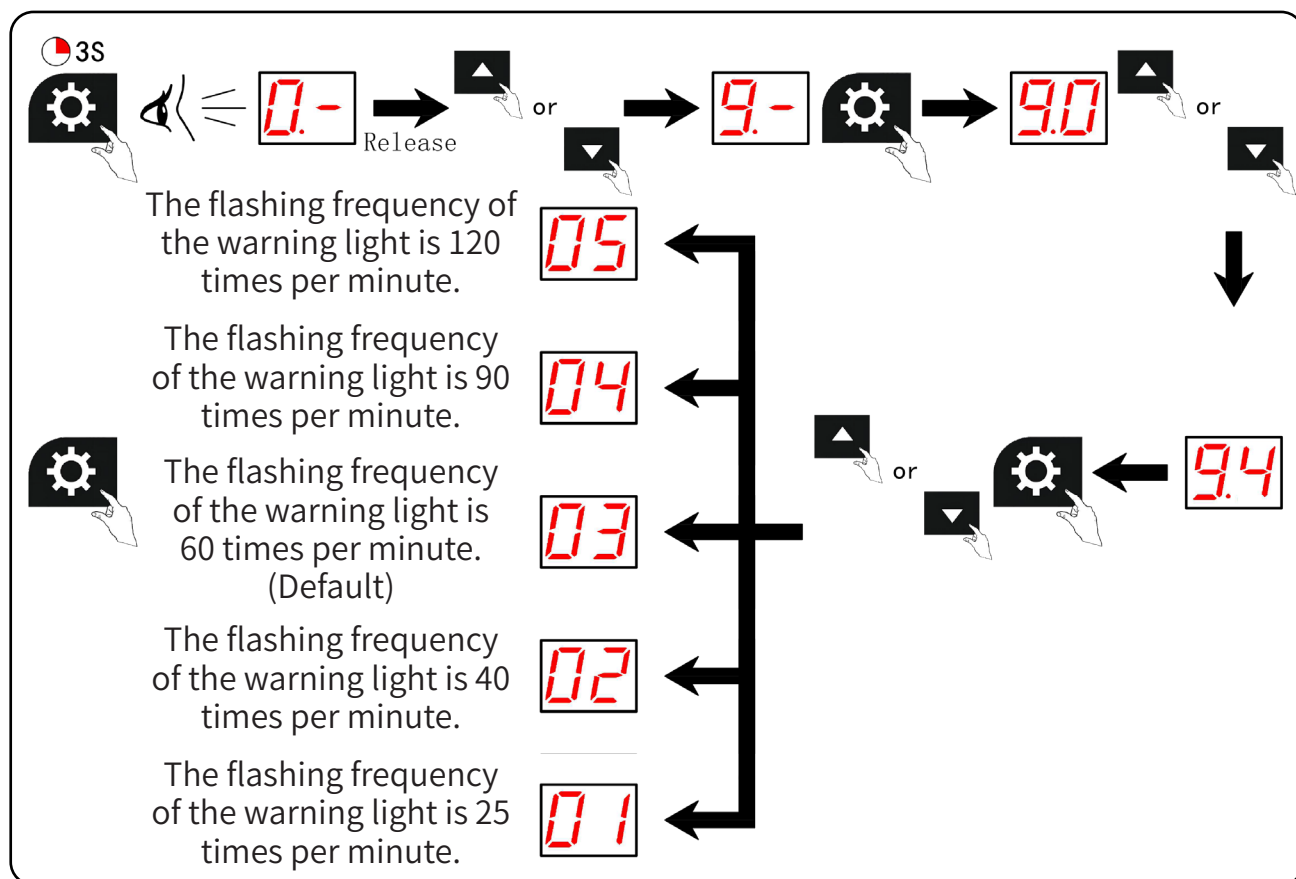
ⓘ This menu is only visible after the warning light turns on the 01-06 traffic light

function in menu 6.2

Example:

Parameter: **01** :1s

9.3 Pre-warnning time setting before auto - closing

ⓘ The time setting range of this parameter is: 0 seconds-120 seconds (X=n*10 seconds).
ⓘ Before using this function, you need to turn on the 01-06 traffic light function in menu 6.2.
ⓘ To use this function, you need to enable the automatic door closing function in menu 4.0.


Example:

Parameter: **01** :10s

9.4 Warning light flashing frequency setting

ⓘ This function is used to adjust the flashing frequency of the warning light.
ⓘ The flashing frequency of the warning light is 60 times/minute (this function menu can only be seen after turning on the 6.2 warning light function port 01 -06)

The flashing frequency of the warning light is 120 times per minute. **05**

The flashing frequency of the warning light is 90 times per minute. **04**

The flashing frequency of the warning light is 60 times per minute. (Default) **03**

The flashing frequency of the warning light is 40 times per minute. **02**

The flashing frequency of the warning light is 25 times per minute. **01**

9.5 Flash light off delay setting after door closed

ⓘ **This function is used to adjust the delay off time after the warning light reaches the close limit.**

ⓘ **Before using this function, you need to turn on the 01-06 traffic light function in menu 6.2.**
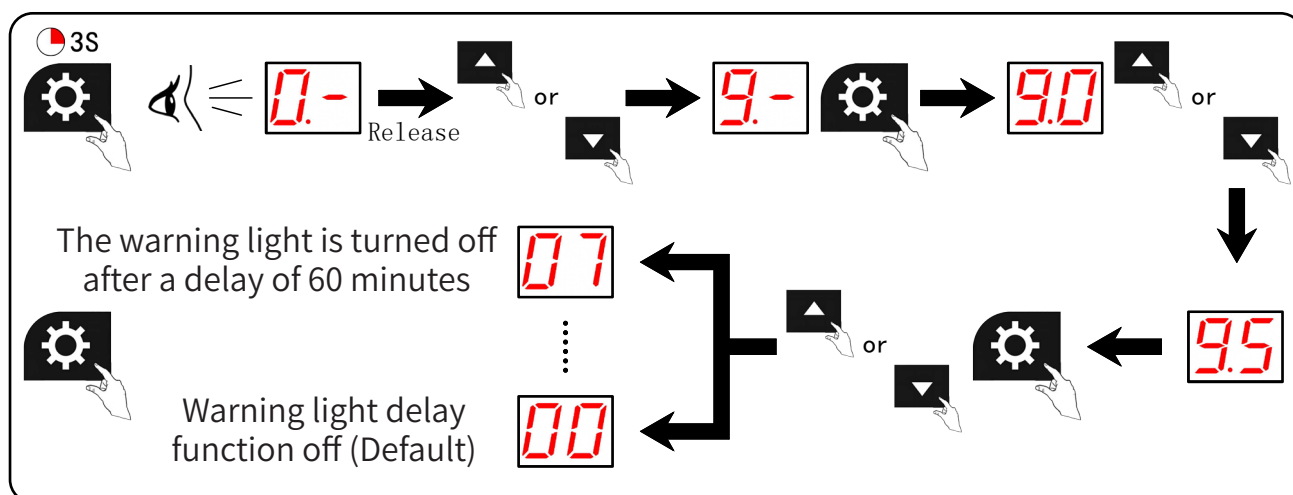
|	
00	The warning light delay function is turned off. (Default)
01	The warning light delay function is on.
02	The warning light turns off after a delay of 1 minute.
03	The warning light will be turned off after a 3-minute delay.
04	The warning light will be turned off after a 5-minute delay.
05	The warning lights are turned off after a 20-minute delay.
06	The warning lights are turned off after a 30-minute delay.
07	The warning light will be turned off after a delay of 60 minutes.

A.0 Relay module function - traffic light
pre-warning time setting before the duration operation

ⓘ The time setting range of this parameter is: 0 seconds ~ 9 seconds.
ⓘ This menu is only visible when the relay port is turned on in 6.4 function and the 01-06 traffic light function is turned on.
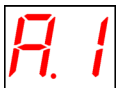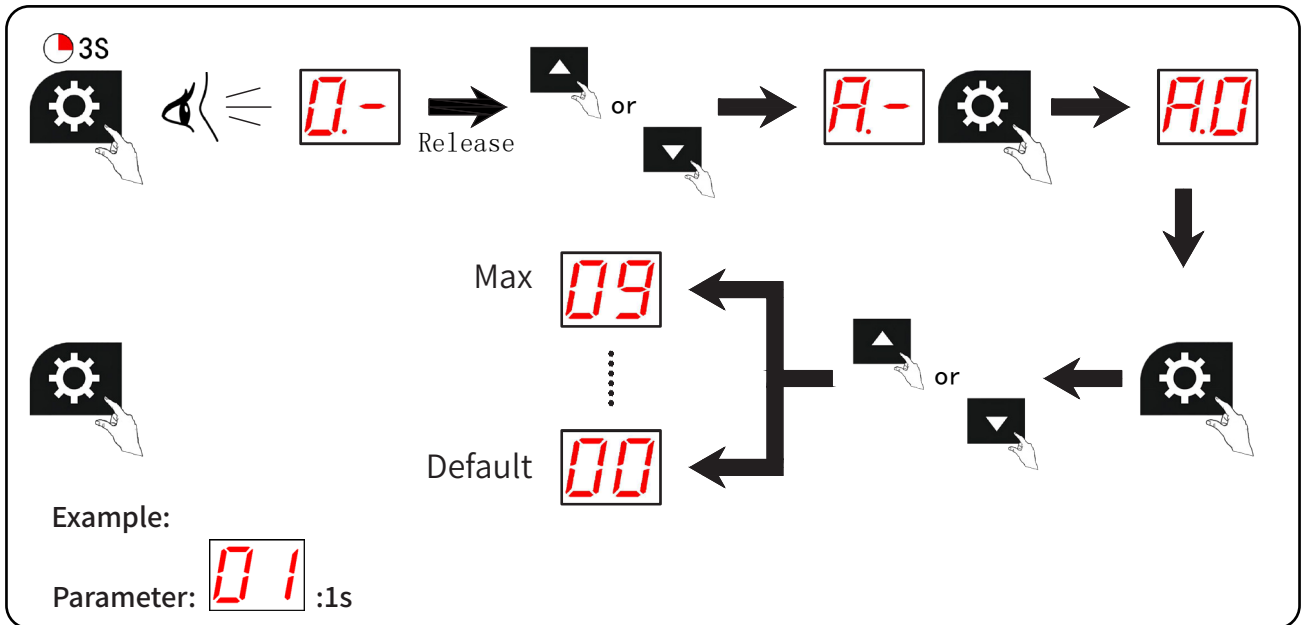
A.1 Relay module function -traffic light
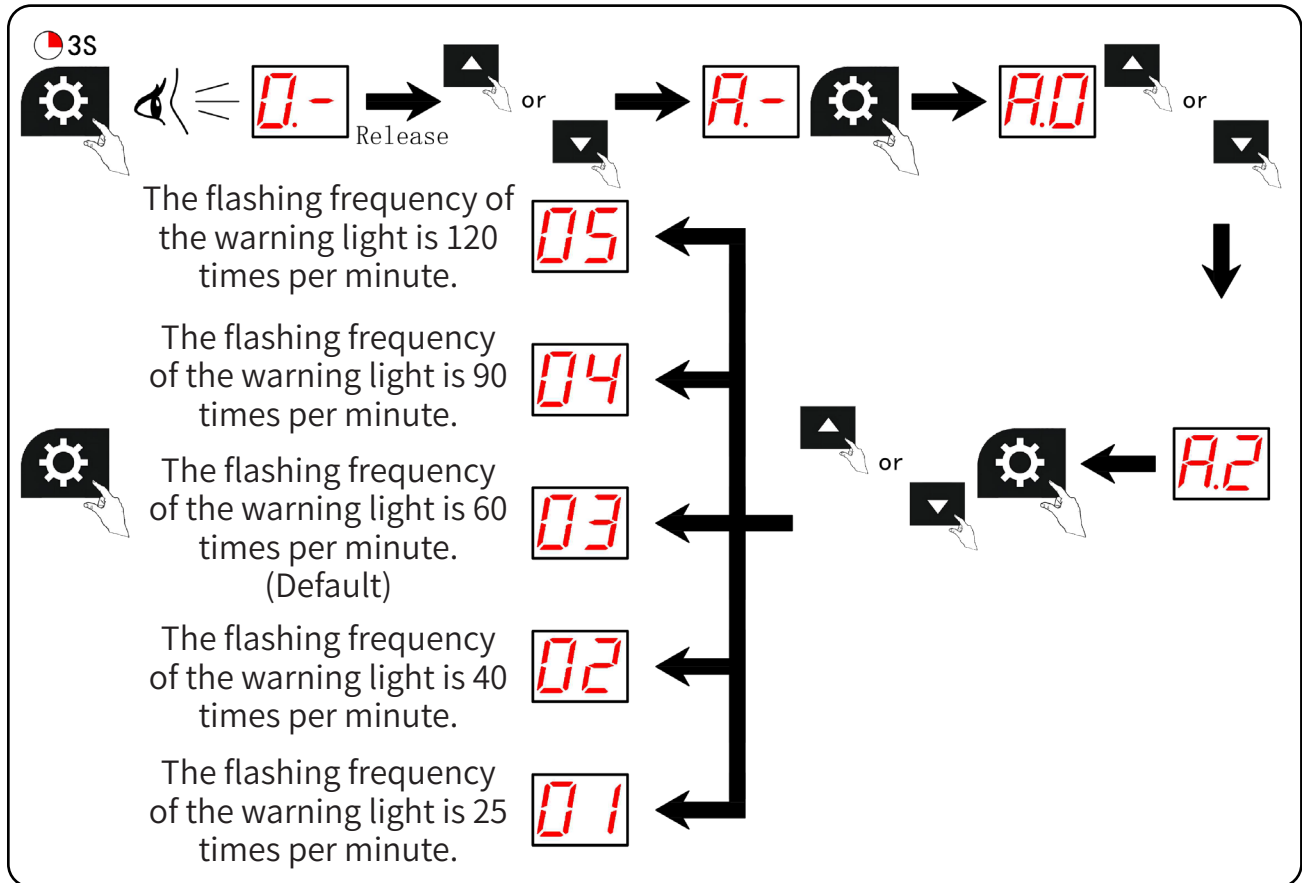pre-warning time setting before Auto-closing

ⓘ The time setting range of this parameter is: 0 seconds ~ 120 seconds (x=n*10).
ⓘ This menu is only visible when the relay port in the 6.4 function turns on the 01-06 traffic light function and the 4.0 automatic door closing function menu is turned on
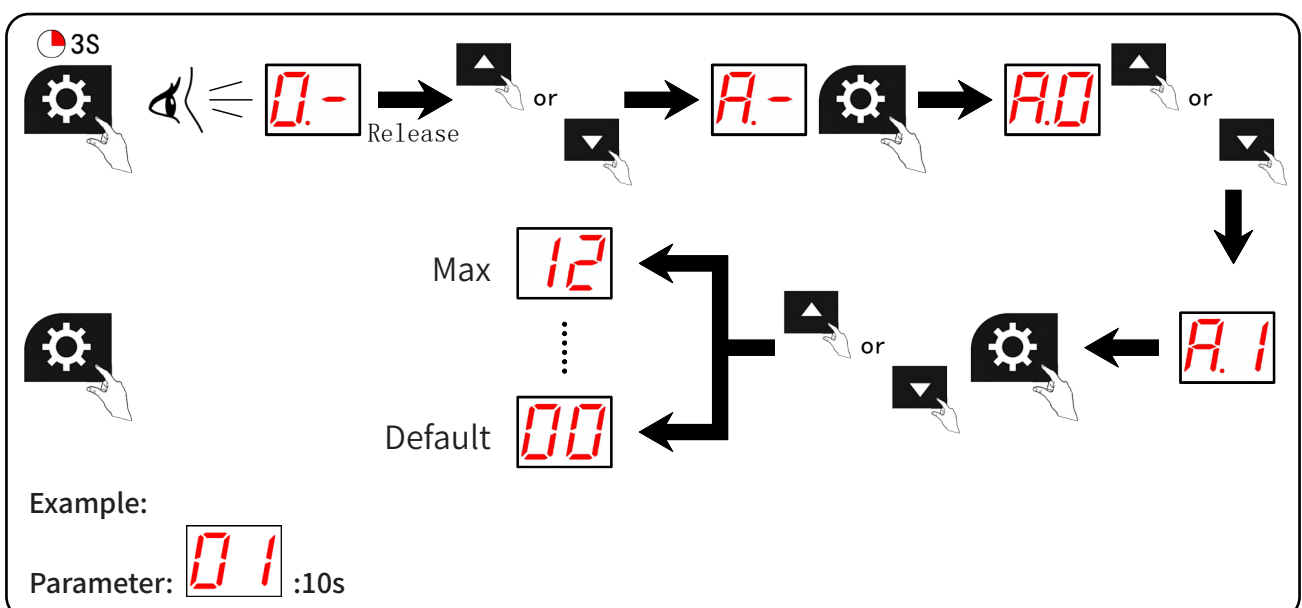
A.2 Relay module function - traffic light
Traffic light flash frequency setting

ⓘ This function is used to adjust the flashing frequency of the relay .

ⓘ This menu is only visible when the relay port is turned on in function 6.4 and

the 01-06 traffic light function is turned on.

The flashing frequency of the warning light is 120 times per minute. **05**

The flashing frequency of the warning light is 90 times per minute. **04**

The flashing frequency of the warning light is 60 times per minute. (Default) **03**

The flashing frequency of the warning light is 40 times per minute. **02**

The flashing frequency of the warning light is 25 times per minute. **01**

A.3 Relay module function - traffic light
Traffic light off delay time setting

ⓘ **This function is used to adjust the delayed release time when the relay port reaches the close limit.**

ⓘ **This menu is only visible when the relay port in 6.4 function is turned on and 01-06 traffic light function is turned on.**
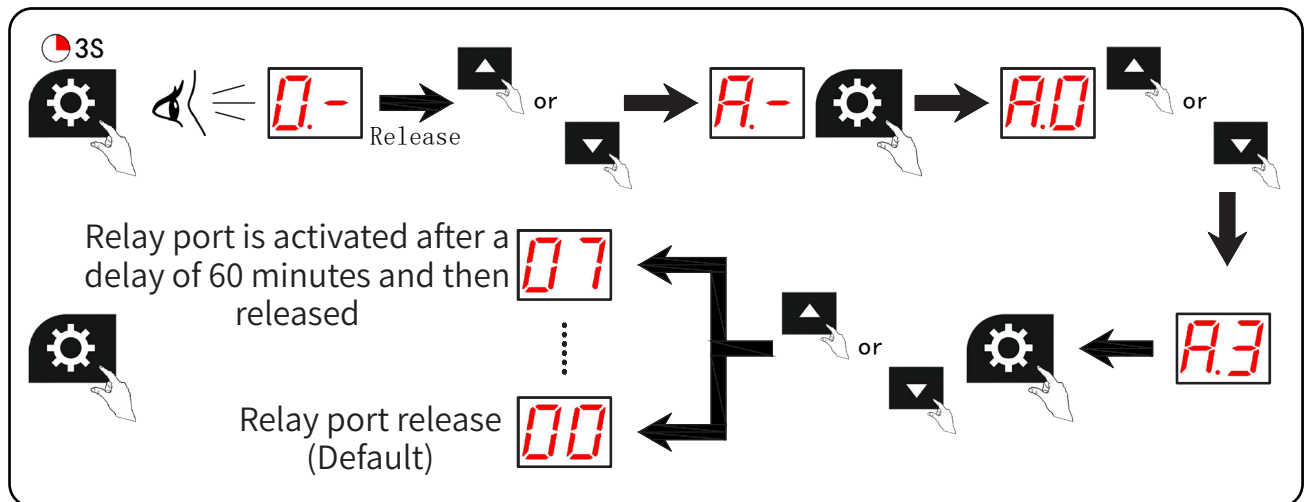
00	Relay -X66 released. (Default)
01	Relay -X66 is activated.
02	Relay -X66 is released after 1 minute delay activation.
03	Relay -X66 is released after 3 minutes of delayed activation.
04	Relay -X66 is released after 5 minutes of delayed activation.
05	Relay -X66 is activated after a delay of 20 minutes and released.
06	Relay -X66 is released after 30 minutes of delayed activation.
07	Relay -X66 releases after 60 minutes of delayed activation.

A.4 Relay module function - traffic light
Traffic Light flash ranges setting during closing

ⓘ This function is used to adjust the activation of the area above the close limit of the relay.

ⓘ This menu is only visible after the relay port is turned on in function 6.4 and function 30 is turned on.
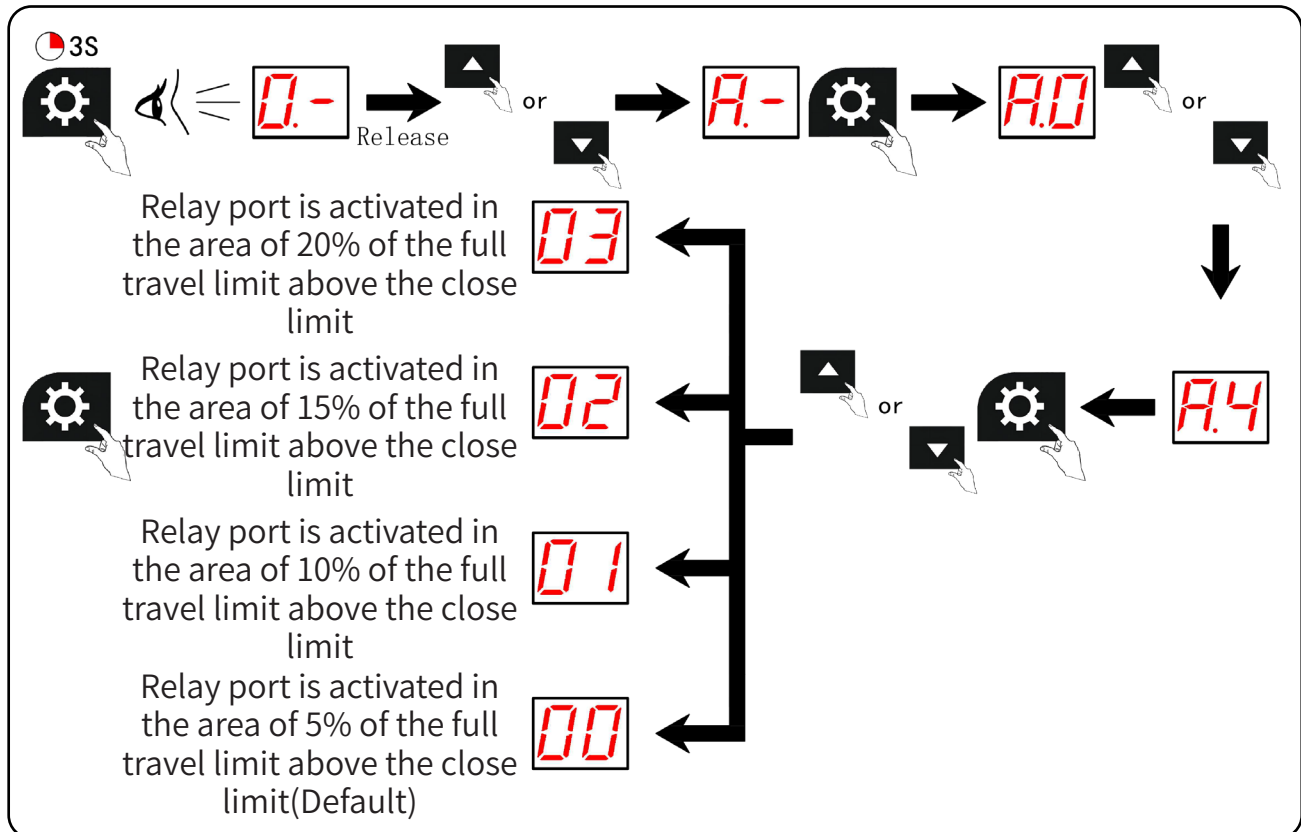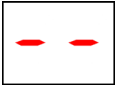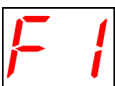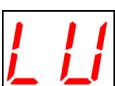
Relay port is activated in the area of 20% of the full travel limit above the close limit — 03

Relay port is activated in the area of 15% of the full travel limit above the close limit — 02

Relay port is activated in the area of 10% of the full travel limit above the close limit — 01

Relay port is activated in the area of 5% of the full travel limit above the close limit(Default) — 00

A.5 Relay module function - traffic light
Traffic Light flash ranges setting during opening

ⓘ This function is used to adjust the activation of the area below the open limit of the relay port.

ⓘ This menu is only visible after the relay port in function 6.4 is turned on and function 31 is turned on .

The relay port is activated in the area below the open limit by 20% **03**

Relay port is activated in the area of 15% of the full travel limit below the open limit **02**

Relay port is activated in the area of 10% of the full travel limit below the open limit **01**

Relay port is activated in the 5% area of the full travel limit below the open limit (Default) **00**
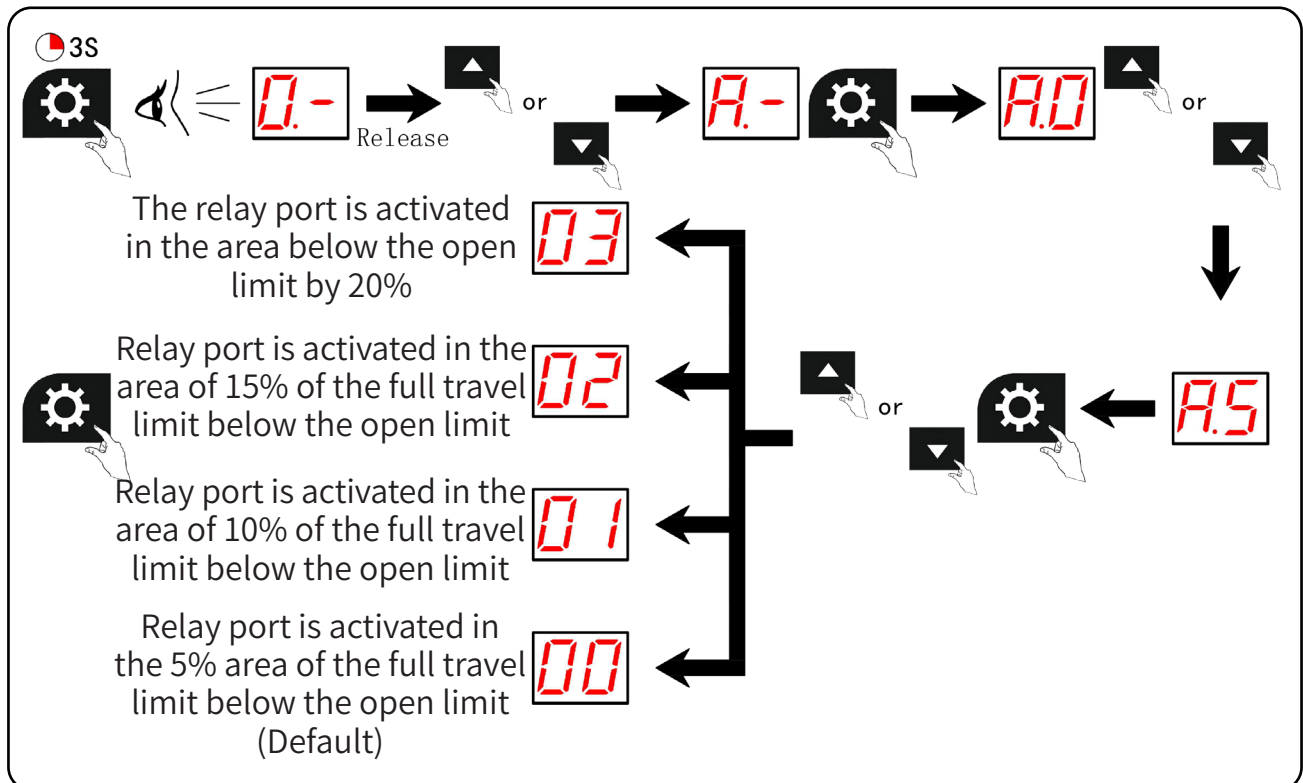
11.System Running Display Codes

Display information	
--	No travel limit state, can run in long press mode
I I	With travel limit status display
⌐ ⌐	Open limit learning status display
L J	Close limit learning status display
oP	Door open display
CL	Closed door operation display
F1	PE/GND port is triggered
F5	ST/12V port is triggered
CA	After the number of maintenance alarms in menu 8.0 is reached, it will be displayed every time
LU	Power supply voltage is low
L⌐	Remote control function lock display
⌐L	Remote control function unlock display

Display information	
Ab	Wireless infrared is triggered
AC	Wireless slack rope switch is triggered
Ad	Wireless wicket door is triggered
AE	Wireless electronic lock is triggered
AF	Wireless safety edge is triggered
A0	Wireless electronic lock device communication failed
A1	Wireless safety edge junction box device communication failed
A2	Wireless infrared device communication failed
A3	Wireless infrared device battery is low
A4	Wireless electronic lock device battery is low
A5	Wireless safety device battery is low
A6	Wireless wicket door device battery is low

12.System Fault Codes

Fault display code	Problem Description	Solution
E0	The Hall sensor is abnormal or the motor wire is connected reversely	1. Check the Hall effect sensor installation and damage 2. Check the Hall effect sensor cable 3. Check the motor cable connection status
E4	Motor overload	1. Adjust the door opening force 2. Check whether the door body runs smoothly or replace it with a motor of greater power
E9	There are abnormal operations that exceed the normal range during the learning stroke operation	Follow the normal learning process
Ed	SD/12V port triggered	Check the status of SD/12V ports
EC	The itinerary was set up incorrectly, the distance was too short, or the limit was exceeded	Relearn the itinerary
bE	1. Wired E-Lock is triggered or faults 2."6.3" function is switched on, but no wired E-Lock is connected	1. Check the wired E-Lock wiring 2. Check whether the wired E-Lock is abnormal or damaged, the wired E-Lock bolt can not retract properly