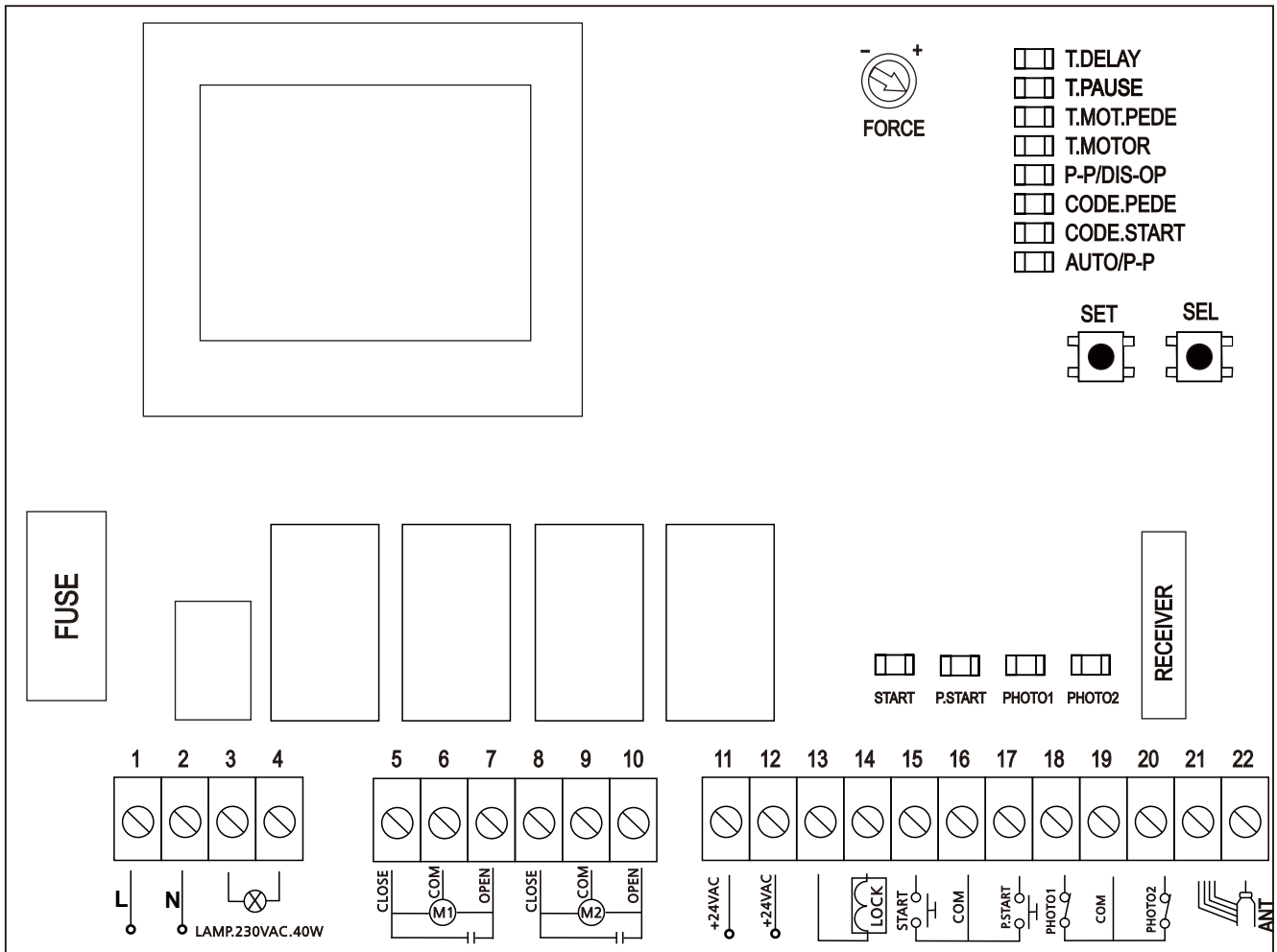


Preliminary Installation and Operating Instruction



CONNECTIONS DESCRIPTION

1	Power phase 230VAC/50Hz
2	Neutral 230VAC/50Hz
3	Lamp output 230VAC (Neutral)
4	Lamp output 230VAC (Phase)
5	Motor 1 closing
6	Motor 1 common
7	Motor 1 opening
8	Motor 1 closing
9	Motor 1 common
10	Motor 1 opening
11-12	Power output 24VAC for accessories
13-14	Electric Lock output 12VDC 15W
15	START command N.O. contact
16	Common (-)
17	P.START command N.O. contact

18	Photocell 1 N.C. contact
19	Common (-)
20	Photocell 2 N.C. contact
21	Antenna shield
22	Antenna

TECHNICAL SPECIFICATIONS

Power supply	230V/50Hz
Max motor load	500W
Max electric lock output	12VDC 15W
Max accessories output	24VAC 3W
Working temperature	-20°C ~ +60°C
Protection fuse	F1 = 5A

Preliminary Installation and Operating Instruction

Standby and Main Menu LED indicated:

	□□ LED OFF	■□ LED ON
□□ T.DELAY	No door delay	Programmed setting time
□□ T.PAUSE	No automatic closure	Programmed setting time
□□ T.MOT.PEDE	Motor pedestrian run 10 sec.	Programmed setting time
□□ T.MOTOR	Motor total run 30 sec.	Programmed setting time
□□ P-P/DIS-OP	Enable input when opening	Disable input when opening
□□ CODE.PEDE	No code	Have code pedestrian start
□□ CODE.START	No code	Have code start
□□ AUTO/P-P	Automatic closure	Step-by-Step

► 1. AUTO/P-P (Manage Control Unit Input Mode)

The control unit default input mode is "Automatic", motor can automatic closure without any input command, it must set **T.PAUSE** LED on with setting pause time.

Press [SEL] key brief until **AUTO/P-P** , press [SET] key brief.

AUTO/P-P ■□ : Control unit input mode is Step-by-Step.

AUTO/P-P □□ : Control unit input mode is Automatic.


► 2. CODE.START (Manage Transmitter Code Start)

The control unit can learn 150 transmitters with fixed or rolling codes. Same function with control unit [15-16] START command input.

Learn codes:

Press [SEL] key brief until **CODE.START** , press and hold transmitter correspond button you want to learn, when **CODE.START** ■□, learn procedure finish. When all function LEDs flash, it means memory is full and can't learn more transmitter.

Erase all codes:

Press [SEL] key brief until **CODE.START** , press and hold [SET] key until **CODE.START** □□, all codes in memory will be erased, erase procedure will finish.

► 3. CODE.PEDE (Manage transmitter code pedestrian)

The learn and erase procedure same with [CODE.START].

► 4. P-P/DIS-OP (Command Disable During Opening and Pause)

The command disable during opening and pause function suitable used for automatic closure with loop detect. During opening and pause, control unit ignore the command given by loop detect.



Press [SEL] key brief until **P-P/DIS-OP** , press [SET] key brief.

P-P/DIS-OP ■□ : Disable input during opening and pause.

P-P/DIS-OP □□ : Enable input during opening and pause.

► 5. T.MOTOR (Motor Self-Learning, Max Timer 4 Minutes)

The control unit default motor operation time is 30 seconds, without slow-down function.

When the door closed. Press [SEL] key brief until **T.MOTOR** , press [SET] key brief, Motor 1 will run opening; when the slow-down initial point is reached, press [SET] key brief again, Motor 1 will run in slow-down; when Motor 1 total opening point is reached, press [SET] key brief, **T.MOTOR** □□ rapidly. Motor 1 will stop opening and start closing, Motor 1 total opening self-learning is complete. Repeat self-learning procedure for motor 1 closing, motor 2 opening and motor 2 closing, when all self-learning procedure finish, **T.MOTOR** ■□ and skip to **T.MOT.PEDE** .



To cancel slow-down function of self-learning, when motor running at the desired point of total opening or closing, press [SET] key twice brief in 2 seconds, instead of press once.

[SEL] KEY : Select the function you want to setting, and correspond LED with start to flash. Press [SEL] key brief again, it will skip to next LED flash. If correspond LED flash over 10 seconds without [SEL] or [SET] key press, LED will stop flash and return to standby mode.

[SET] KEY: When correspond function LED flash, press [SET] key to confirm enter/toggle correspond function setting. Finish correspond function setting, it will return to standby mode or skip to next LED flash.

► 6. T.MOT.PEDE (Motor Pedestrian Self-Learning, Max Timer 4 minutes)


The control unit default motor 1 pedestrian operation time is 10 seconds, without slow-down function.

When the door closed. Press [SEL] key brief until **T.MOT.PEDE** , press [SET] key brief, Motor 1 will run opening; when the slow-down initial point is reached, press [SET] key brief again, Motor 1 will run in slow-down; when Motor 1 pedestrian opening point is reached, press [SET] key brief, **T.MOT.PEDE** □□ rapidly. Motor 1 will stop opening and start closing, Motor 1 pedestrian opening self-learning is complete. Repeat self-learning procedure for Motor 1 closing, when all pedestrian self-learning procedure finish, **T.MOT.PEDE** ■□ and skip to **T.PAUSE** .

To cancel slow-down function of self-learning, when motor running at the desired point of total opening or closing, press [SET] key twice brief in 2 seconds, instead of press once.

► 7. T.PAUSE (Automatic Closure Pause Time, Max 4 Minutes)


The control unit default without automatic closure function.

Press [SEL] key brief until **T.PAUSE** , press [SET] key brief and wait for the desired pause time, then press [SET] key brief again, the automatic closure pause time is stored and **T.PAUSE** ■□.

To cancel automatic closure pause time, press [SEL] key brief until **T.PAUSE** □□, press [SET] key twice brief in 2 seconds, **T.PAUSE** □□ and operation finish.

► 8. T.DELAY (Door Delay Time, Max 15 Seconds)

The control unit default without door delay during opening and closing.

When the door closed. Press [SEL] key brief until **T.DELAY** , press [SET] key brief and wait for the desired delay time, then press [SET] key brief again, the opening delay time 2 seconds is stored, the closing delay time stored as the desired setting time. **T.PAUSE** ■□.

To cancel automatic closure pause time, press [SEL] key brief until **T.PAUSE** □□, press [SET] key twice brief in 2 seconds, **T.PAUSE** □□ and operation finish.

Preliminary Installation and Operating Instruction

External Menu LED indicated:

	<input type="checkbox"/> LED OFF	<input checked="" type="checkbox"/> LED ON
<input type="checkbox"/> T.DELAY <input type="checkbox"/> T.PAUSE	[T.PAUSE] and [T.DELAY] LEDS flash alternately	[T.PAUSE] and [T.DELAY] LEDS flash alternately
<input type="checkbox"/> T.MOT.PEDE	PHOTO2 = Photocell2 Input	PHOTO2 = STOP Input
<input type="checkbox"/> T.MOTOR	Close Lock Max Force OFF	Close Lock Max Force ON
<input type="checkbox"/> P-P/DIS-OP	Open Lock backlash OFF	Open Lock Backlash ON
<input type="checkbox"/> CODE.PEDE	Pressure Maintenance OFF	Pressure Maintenance ON
<input type="checkbox"/> CODE.START	Photocell Test ON	Photocell Test OFF
<input type="checkbox"/> AUTO/P-P	Remote PGM OFF	Remote PGM ON


Enter External Menu :

When control unit current in standby menu, press and hold [SET] key over 5 seconds, the [T.PAUSE] and [T.MOTOR] LEDES flash alternately, now enter External Menu.

Exit to Standby Menu :

When enter External Menu, over 30 seconds without [SEL] or [SET] key press, control unit will return back to standby menu .

► 1. AUTO/P-P (Transmitter Learn via Radio Control)

The control unit allow to enter learn transmitter function via radio control. Press and hold the transmitter correspond button that already learn over 10 seconds, the external menu **AUTO/P-P** , now can learn new transmitter.

Press [SEL] key brief until **AUTO/P-P** , press [SET] key brief.
AUTO/P-P : Enable transmitter learn via radio control.
AUTO/P-P : Disable transmitter learn via radio control.


► 2. CODE.START (Photocell Test)

The control unit disable photocell test function, it will ignore PHOTO1 contact [18-19] and PHOTO2 contact [19-20] input during door opening or closing.

Press [SEL] key brief until **CODE.START** , press [SET] key brief.
CODE.START : Disable photocell test.
CODE.START : Enable photocell test.

► 3. CODE.PEDE (Maintaining Hydraulic Motor Pressure)

The control unit will send a closing command to motor every 2 hours for 2 seconds to keep Hydraulic motor pressure tighten.


Press [SEL] key brief until **CODE.PEDE** , press [SET] key brief.
CODE.PEDE : Enable motor hydraulic pressure maintenance.
CODE.PEDE : Disable motor hydraulic pressure maintenance.

SYSTEM RESET :

To restore all the default configuration , press and hold [SEL] and [SET] keys together , all function LEDES will light on then light off , system reset procedure finish .


► 4. P-P/DIS-OP (Closing 2 seconds Before Opening)

The control unit will closing 2 seconds before opening, to release the electric lock operation.

Press [SEL] key brief until **P-P/DIS-OP** , press [SET] key brief.
P-P/DIS-OP : Enable backlash to release electric lock.
P-P/DIS-OP : Disable backlash to release electric lock.

► 5. T.MOTOR (Closing Max. Power 1 Second After Slow-Down)

The control unit will add 1 seconds maximum power after slow-down during closing, to tighten the door for electric lock operation.

Press [SEL] key brief until **T.MOTOR** , press [SET] key brief.
T.MOTOR : Enable closing max force after slow-down.
T.MOTOR : Disable closing max force after slow-down.

► 6. T.MOT.PEDE (Input PHOTO2 is PHOTO2 or STOP)

The control unit input PHOTO2 is normal close (NC) contact [19-20].

Default input is PHOTO2, when door opening and contact is open, door will stop, contact close again, door will resume opening again. when door closing and contact is open, door will reverse to opening.

If input setting is STOP, when door during opening or closing, contact is open, door will stop immediately, any input command not accept, when contact close, it will resume to normal operation. When door ready to close, lamp will pre-flashing 5 seconds.

Press [SEL] key brief until **T.MOT.PEDE** , press [SET] key brief.
T.MOT.PEDE : Select input PHOTO2 is STOP.
T.MOT.PEDE : Select input PHOTO2 is PHOTO2.

LOW VOLTAGE INPUT DIAGNOSTICS :

The control unit have 4 LEDES near the connector of low voltage input , monitor the status of input status .

When the input close , correspond LED will light on .
 When the input open , correspond LED will light off .