eSSL®
Security at Fingertips

SWING DOOR OPENER

INSTALLING AND OPERATING INSTRUCTION

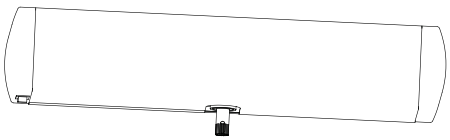
GO-I-28

PLEASE READ THE MANUAL CAREFULLY
BEFORE INSTALLING AND USE

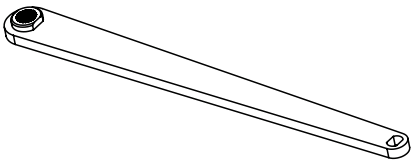
WARNING TO THE INSTALLER AND SUER

1) CAUTION! For personal safety it is important to follow all the instructions carefully. Incorrect installation or misuse of the product may cause serious injury to people .
2) This product must be installed, debugged and maintained by professional and qualified personnel.
3) The power supply voltage must match the design requirements of this product and comply with electrical safety regulations.
4) This product was designed and manufactured strictly for the use indicated in this document. Any other usage not expressly indicated in this Document, may damage the product and/or be a source of danger.
5) The company is not responsible for losses caused by improper use .
6) Before carrying out any work on the product, turn off the Power supply.
7) This product must be equipped with an independent 6 A circuit breaker.
8) Do not make any alterations to the components of the product (Opener and Accessory).
9) Keep the instructions in a safe place for future refaerence.

1.Main parts



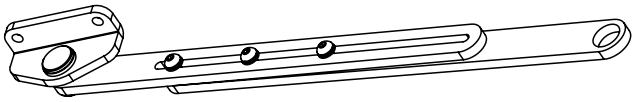
GO-I-28,swing door opener



The main rod

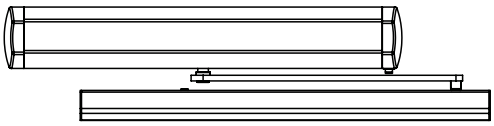
The pull rod (option)

Transmitter

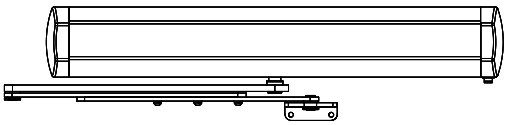


The push rod (option)

Screws

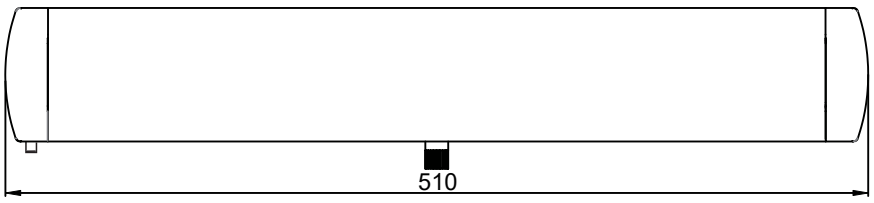


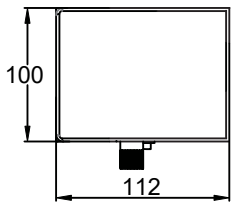
The opener with pull rod



The opener with push rod

2.Dimensions





3.Technical Data

Power supply	AC220V±10% 50HZ
Power of motor	24VDC/40W
Rpm of motor	1800RPM
Open/close time	3-10S(adjustable)
Maximum opening angle	120°
Maximum door width	1200mm
Maximum door weight	120Kg
Working temperature	-20℃～50℃

4.Features

* Pull or push to activate the door opener operation.
* Automatic learning open-limit and close-limit when power on.
* Soft stop before open and close limits.
* Automatically Return when encountering resistance.
* Protection and access control equipment can be connected, such as radar, infrared sensor, card reader, electromagnetic lock, electric bolt lock, etc.
* With Fire alarm linkage interface.

5.Installation

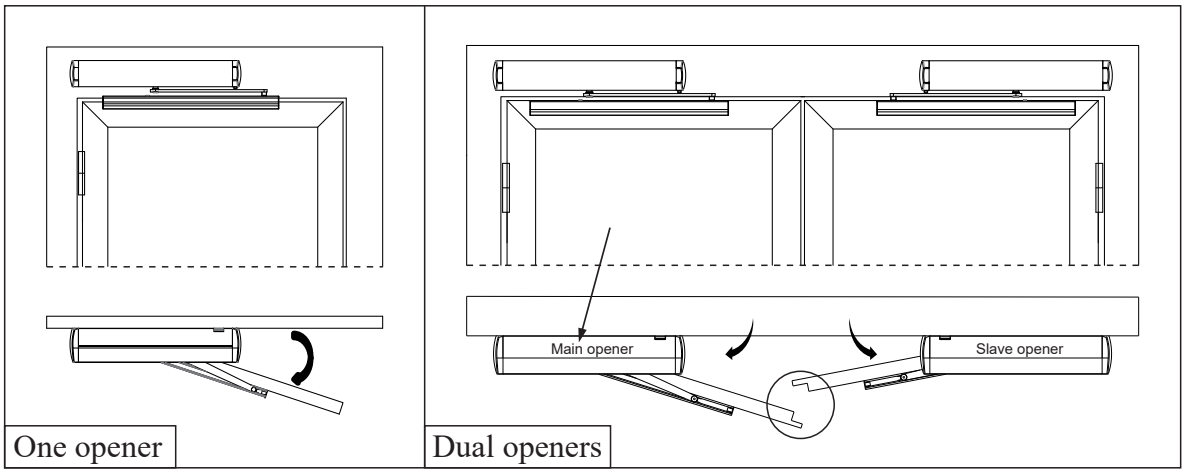




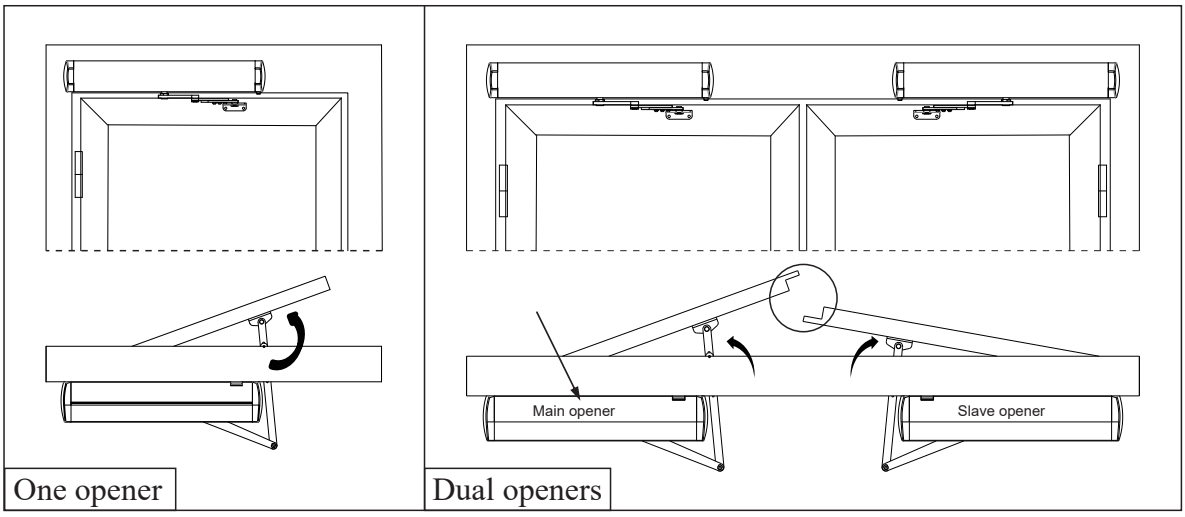


5.1 Installation diagram

Example for Pulling



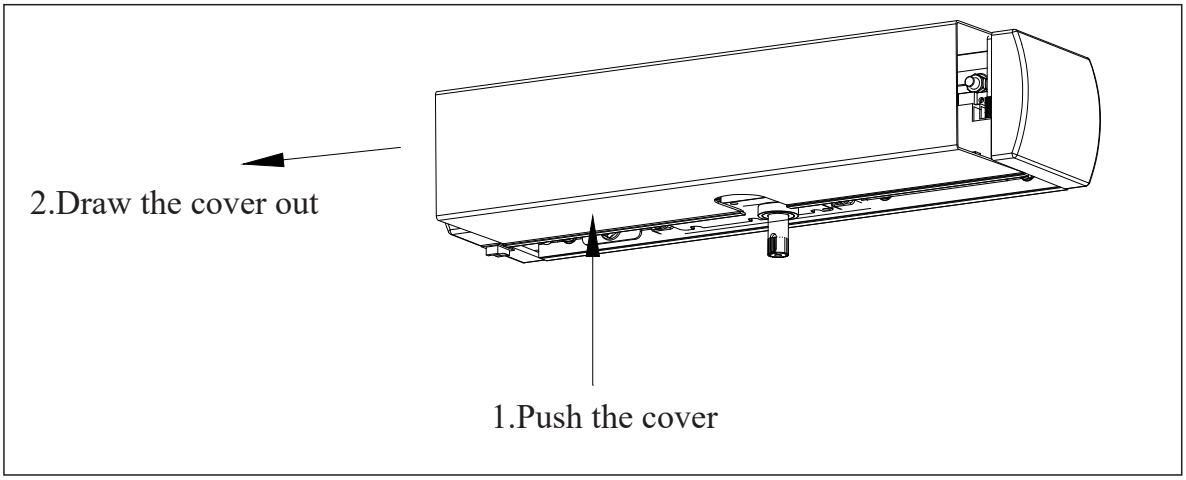
Example for pushing



Very Important Notice!
Both the door frame and the door must be firm and strong.
Ensure the fixed points that the door opener installed on the door frame and the door are firm and reliable, and will not loosen during operation!

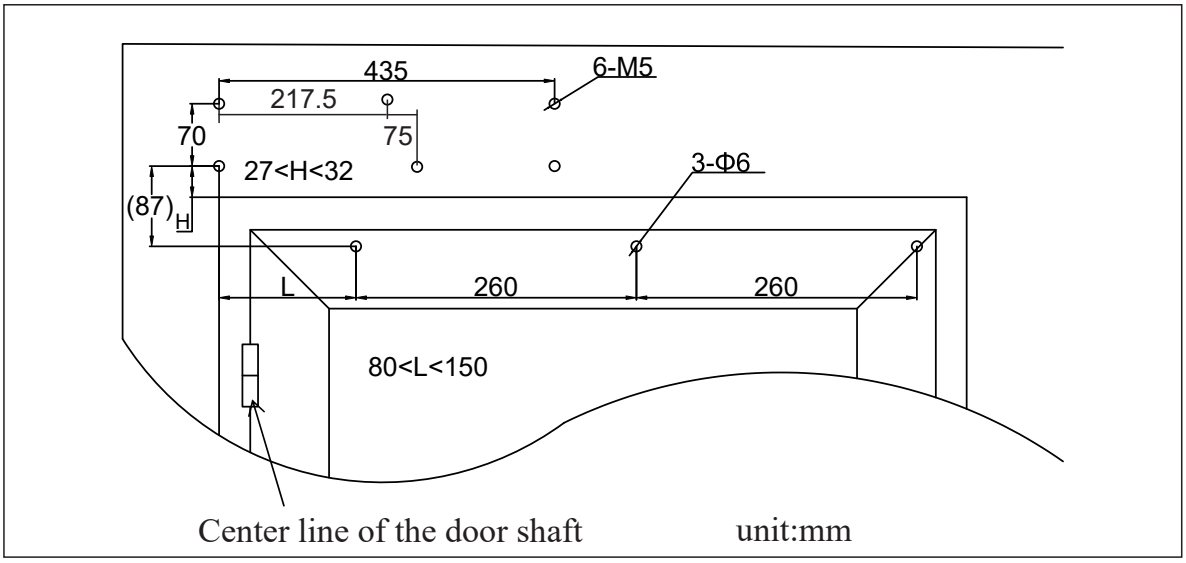
5.2 Open the Cover before installation

Press one side of the cover to get it out of the slot, and take it out.

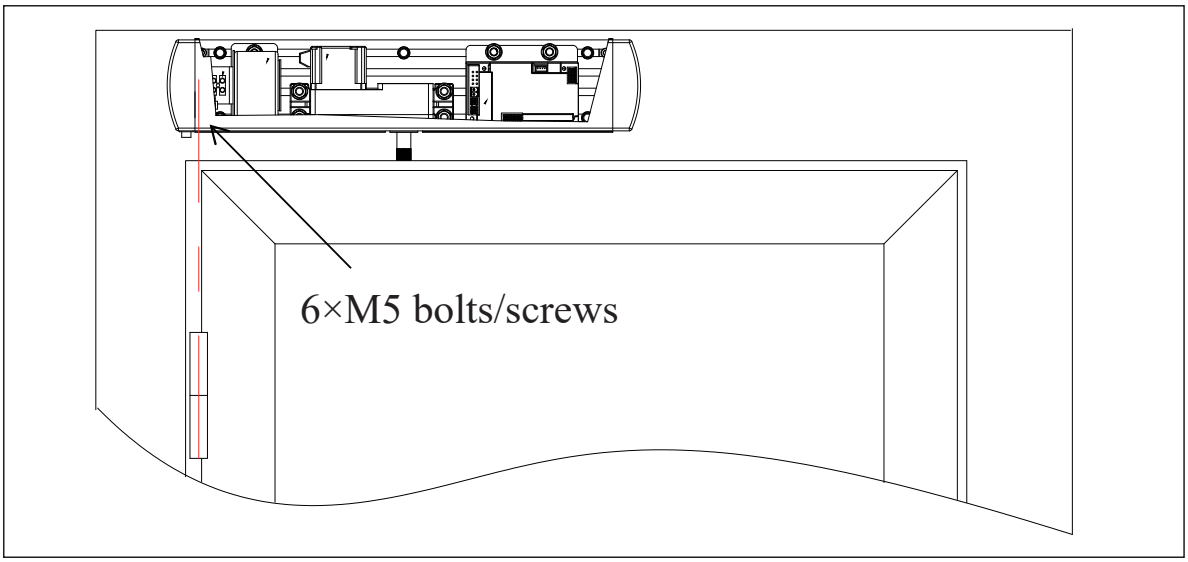


5.3 Installation steps of PULLING OPENER

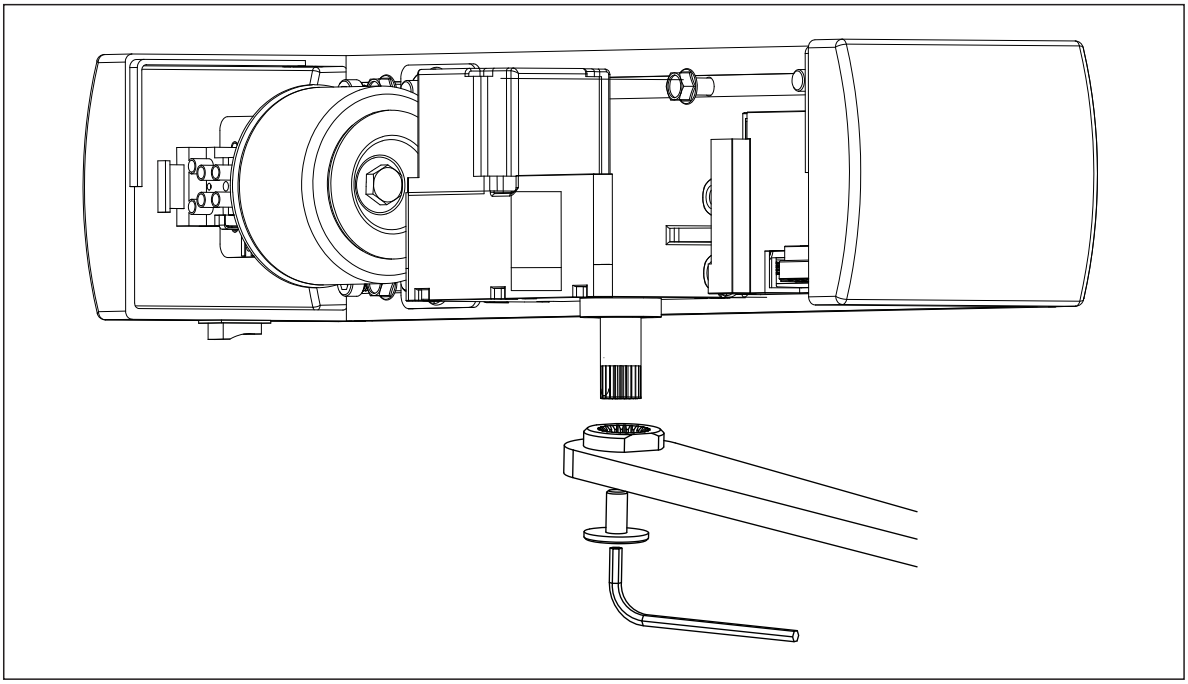
5.3.1 Installation location and measurement



5.3.2 Installation of OPENER

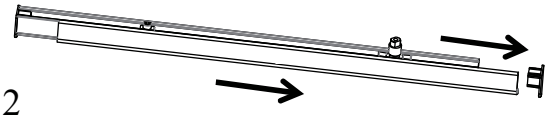


5.3.3 Installation of the MAIN ROD



5.3.4 Installation of the PULL ROD

1



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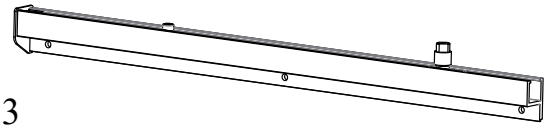
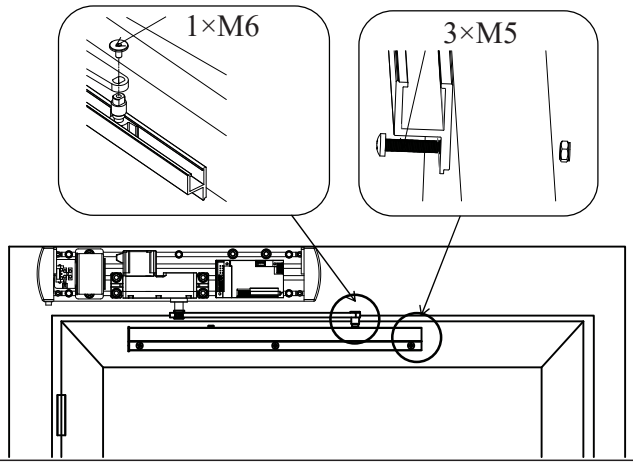


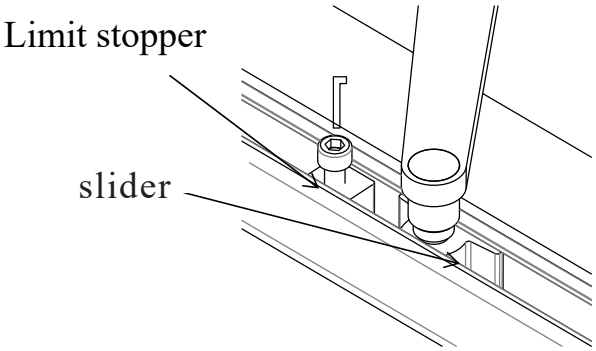
3

Note: The gap between the lower edge of the main rod from the upper edge of the door must be ≥5 mm to prevent interference with the door



4

First,use an Allen key to loosen the block screw. Then open the door completely,set the limit stopper about 5mm away from the slider.



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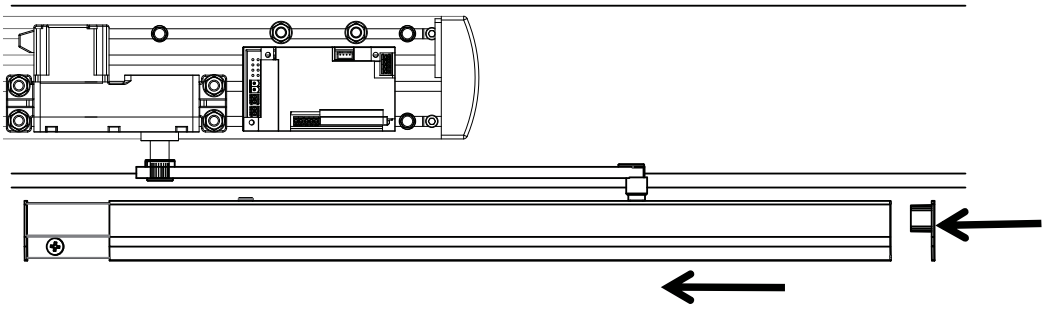

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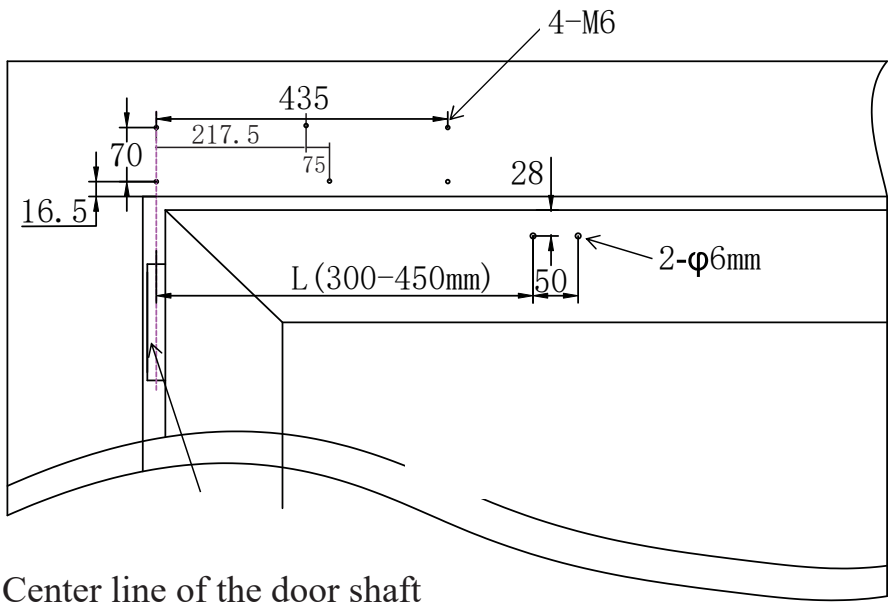
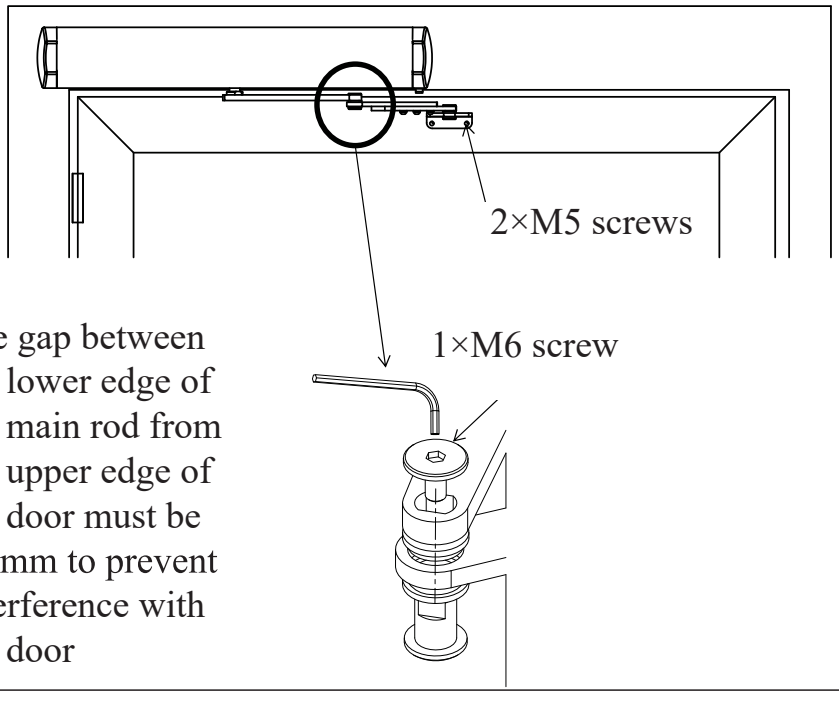
5.4 Installation steps of PULLING OPENER

5.4.1 Installation location and measurement



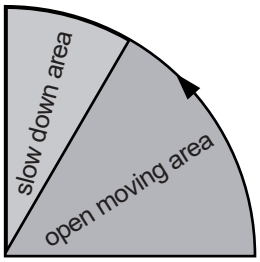
(Installation of OPENER and the MAIN ROD,refer to 5.3.3)

5.4.2 Installation of the PUSH ROD

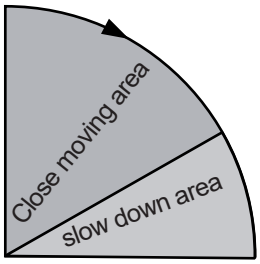


Note: The gap between the lower edge of the main rod from the upper edge of the door must be ≥5 mm to prevent interference with the door

6.Instruction of DC brushless Swing opener control unit



Open operation



Close operation

1、Operate mode

Power on, gate auto close to detect close limit position—stop —Send Open signal—Opening—Soft stop—To the max travel— Stop,waiting the auto-close time—Auto-close—Softstop—Stop

2、Obstacle mode(G5 can set)

2.1 Return when obstacle

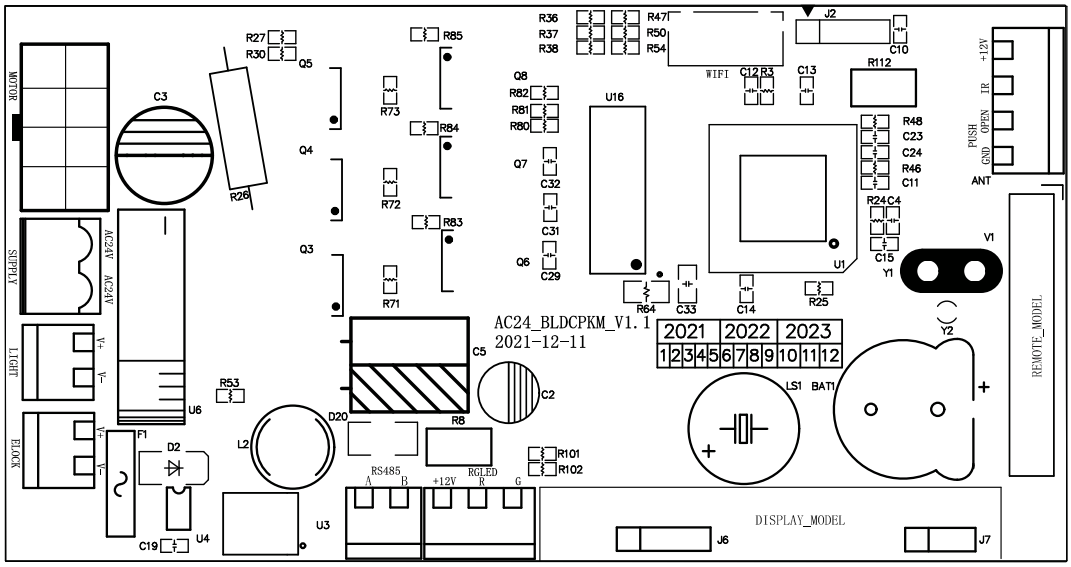
2.2 Stop when obstacle, then continue to open.

3. Photocell mode

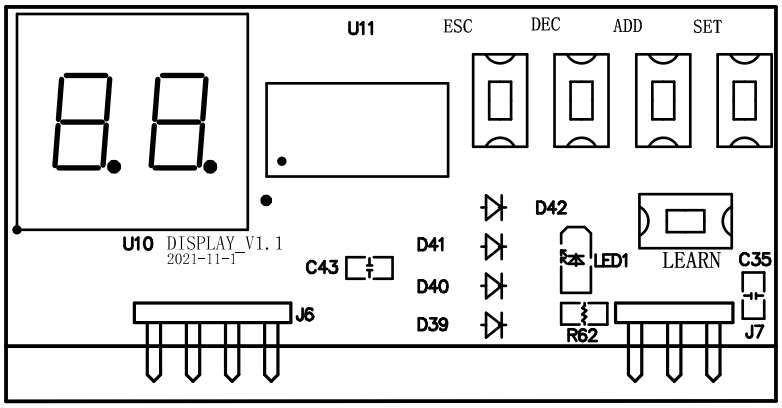
FA=0, meet obstacle during closing—stop

FA=1, meet obstacle during opening—stop—open.

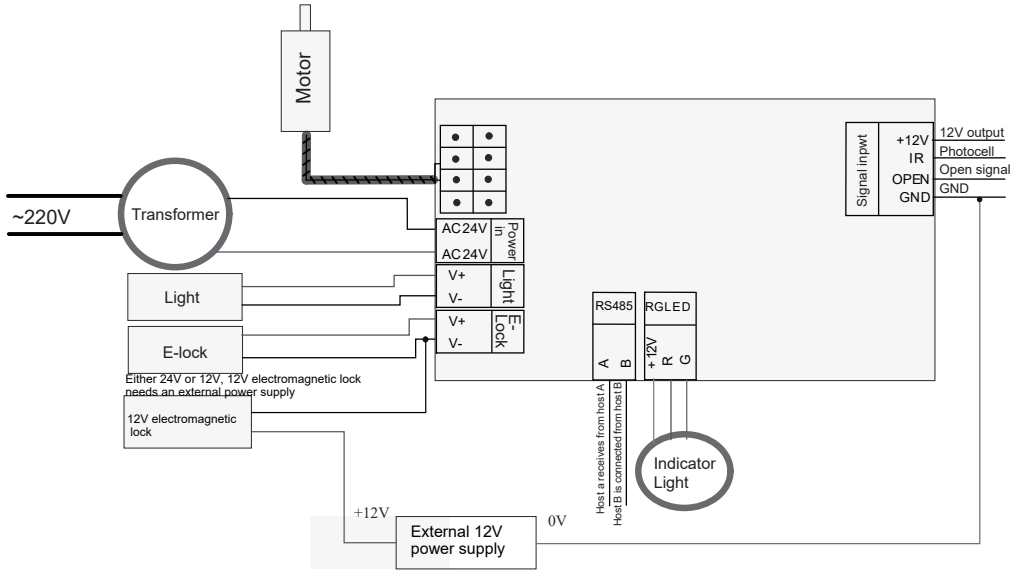
7.Connection of control board



Main board layout



Buttons layout



No	Description	Mark
1	Terminals of motor	
2	Input 24V	
3	light	
4	E-lock	Default is 24V, if the E-lock is 12V, need connect am external power supply
5	RS485 communication terminal	
6	Red and green light	
11	External signal input terminal	
13	LED display	
14	operate buttons	Set, increase/open, reduce/ close, quit
15	Learn	Learn button

8. Operation process

8.1 limit learning process

Note: Auto-detect the close position after power on, display changed from " LC" to "_ _", don't interrupt the door during running, set the open travel by value of F8, if power on, the door is auto-open not auto-close, need to set the value of F6 from 0 to 1, or from 1 to 0.

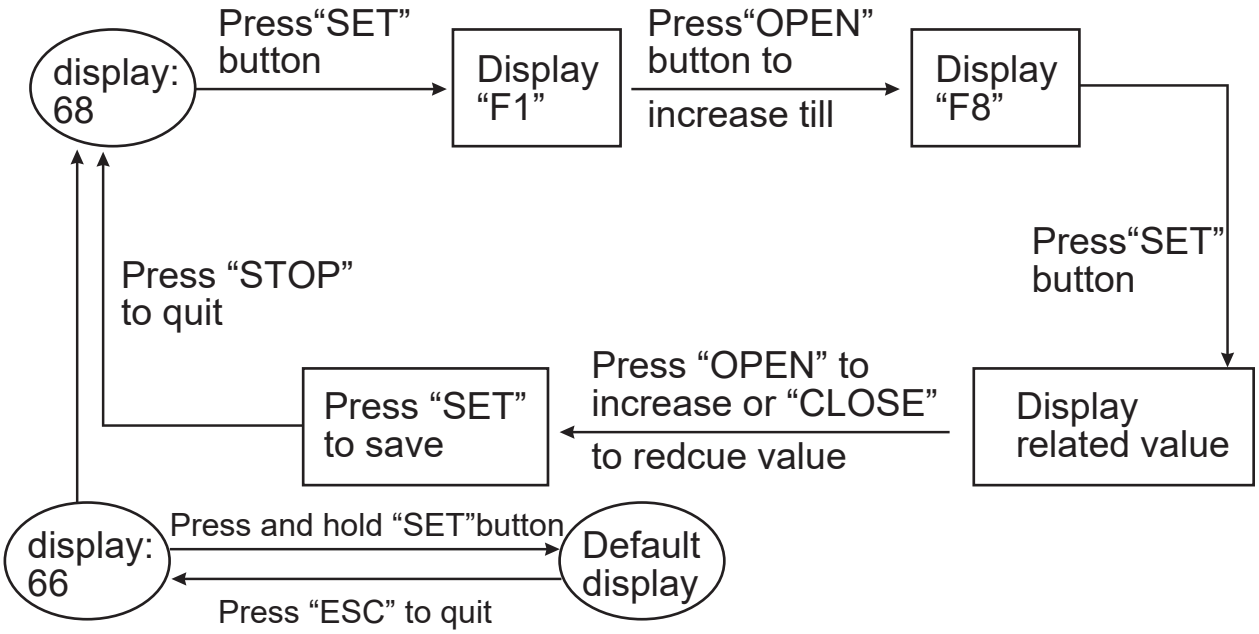
8.2 Function parameter setting(an be modified, password: 68)

F0	Caution: if set the value to 20, means return to factory setting.
F1	Open travel, range: 20~99, default: 40; can be used to adjust the open angle.
F2	The speed of checking the close limit, range: 5~30, default: 10, the percent of max speed.
F3	The current of checking the close limit,, range: 2~30, default: 10; unit: 0.1A.
F4	Open speed level, range: 0~4, default: 1, the bigger value, the slower speed.
F5	Close speed level, range: 0~4, default: 2 , the bigger value, the slower speed.
F6	Motor running: Clock-wise or anti clock-wise set, default: 0, 0 means clock wise running, 1 means anti clock-wise running.
F7	Lock mode, range: 0~2, default: 0, 0 means auto-lock when reach close limit position, 1 means auto-lock when closing, 2 means motor self-lock.
F8	Host and slave machine setting, range: 0~2, default: 2, 0 means dual open of host motors, 1 means dual open of slave motors, 2 single motor.
F9	Delay auto-close time, range: 0-99, default: 5, 0 is off this function.
FA	FA Photocell function switch. range: 0~1, default: 1; 0 means active photocell the door will stop, 1 means active photocell, the door will open.
FB	Reduce speed zone, range: 20~60, default: 40. Reduce speed zone percentage in whole travel.
FC	Obstacle current, range: 10~80, default: 20, unit: 0.1A.
FD	Current of reaching close limit position, range: 03~30, default: 05, unit: 0.1A.

FE	Remote mode, range: 0~6, default: 0: T26 4 button control, normal open; 1: T26 4 button control, no normal open; 2: T26 single button control; 3: T23 4 buttons with normal open; 4 T23 single buttion control; 5: wall button swith; 6: Fix code remote
FF	Remote"*" button function switch, range: 0~1, default: 1. 0: remote setting function is off; 1: remote setting function is on.
G0	Photocell stop delay auto close time, range: 0~99, default: 5
G1	Push door to the angle for auto open, range: 0~10, default: 5; unit: degree
G2	Close limit position setting, range: 0~10, default: 5; unit: degree
G3	Angle of reaching close limit position, range: 0~20, default: 4; unit: degree
G4	E-lock type chose, range: 0~10, default: 0; 0=electric magnet lock/electric bolt lock;1=motor lock/electric control lock.
G5	Obstacle when openning, range: 0~1, default: 0; 0=return when obstacle, 1=stop for 3s when obstacle, then continue to open.
G6	Lock release time, range: 0~30, default: 0; normal used on electric bolt lock.
G7	Overtime of running, range: 10~99, default: 15; unit: S.
G8	Open time different of Host and slave machine, range: 0~20, default: 0; unit: 0.2s, normally used on the swing gate with hinch.
G9	Foce of motor self-lock, range: 0~80, default: 30; caution that the PCB and motor will overheat if the value is more than 50.
GA	Serial communication mode, range: 0~1, default: 0, 0: off, 1: on
GB	Parameter P, range: 05~30, default: 5.
GC	Parameter I, range: 05~30, default: 8.
GD	Motor pole pair number, range: 2~10, default: 4
GE	Max running speed, range: 6~30, default: 18, unit: 100rpm
GF	Motor model: range:0~29, 28=GO-I-28

H0	Reserved parameter
H1	Reserved parameter
H2	Reserved parameter
H3	Reserved parameter
H4	Reserved parameter
H5	Reserved parameter
H6	Reserved parameter
H7	Reserved parameter
H8	Reserved parameter
H9	Reserved parameter
HA	Reserved parameter
HB	Reserved parameter
P0	Present hall position, 10=close position
P1	Present voltage, unit: V
P2	Real-time current, unit: A
P3	Max current of present operation, unit: A
P4	Present speed, unit: 100rpm
P5	Present PWM value
P6	Loss hall value
P7	Reserved
P8	Reserved
P9	Reserved

8.3 Parameter setting



8.4 Transmitter's coding and Erasing

8.4.1 Transmitter's code setting

Press "LEARN”button on the Control Board to the LED light on, then press the button which you choose on the transmitter till the LED flashes and goes out. Now, the transmitter is coded. Other transmitters can be coded as this way.

8.4.2 Erasing the transmitter's code

Press" LEARN” button on the Control Board and hold on to make the "LEARN LED" light on up to go out. Now, all transmitters which had been coded are cleared.

9. Trouble and shooting

9.1 Error code list

Error Code	Meaning	Shooting
E0	Abnormal voltage	Checking the input voltage
E1	Over current	Check the motor running smoothly or not
E2	Hall is abnormal	Check the hall of the motor
E3	Communicate is abnormal	Check the F8
E4	Obstacle during openning	Check if the motor is moving smoothly or not, the value of FC is too less?
E5	bstacle during closing	Check if the motor is moving smoothly or not, the value of FC is too less?
E6	Motor running is blocked	Check the motor running smoothly or not, limit setting is reasonable?
E7	Photocell is blocked	Remove the obstacle
E8	Hall loss is too much	Checking the motor wires
E9	Over time running of motor	Check if the motor is moving smoothly or not, need adjust the value of G7 bigger for heavy door
EA	Self inspect failed	Cut off the power, move the door to middle position, power on then restart.

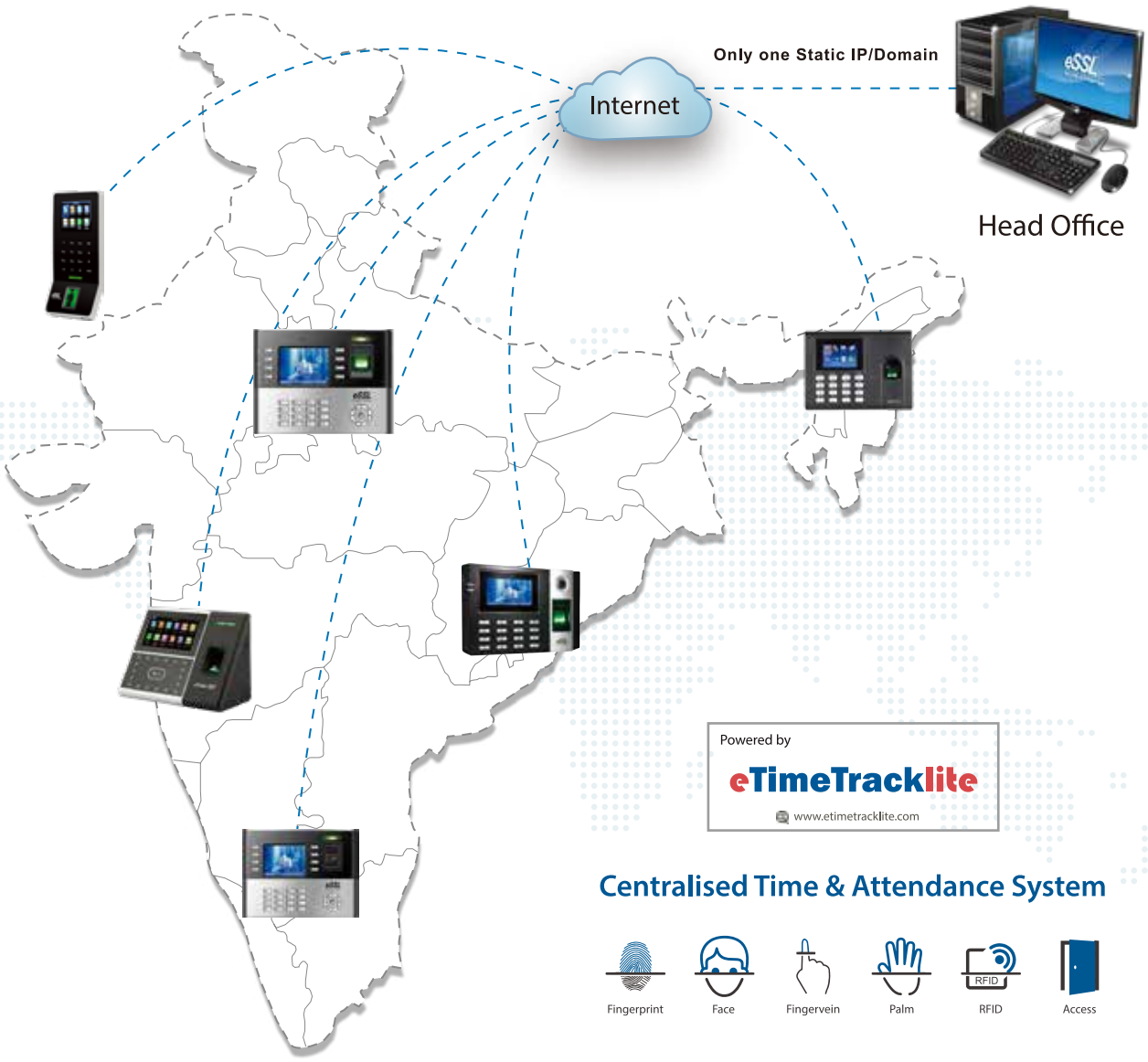
Others	Meaning	Introduction
Power on, Display 2.0	Version No.	Version No.is 2.0
0/1/2	the value of F8 (host/slave/single)	0=host, 1=slave, 2=single
LC	self-inspect close position	Please don't stop the door during inspection
OP	Openning state	
CL	Close state	
No	Normal open of the door	Cancel by pressing the close button of remote
3..2..1..	Countdown to close	The door will close when countdown to 0
_ _	Close limit position	2 underline
– –	Stop position	2 dash
‾ ‾	Open limit position	2 upper line

9.2 Trouble Shooting

Trouble	Reason	Shooting
No display after power on	No input power	Check input power
	Power line is wrong connected	Check the connections
	Fuse protect	Check if there is a short circuit.
Display Error code	Refer to Error list	Refer to Error list
Remote doesn’t work	Battery is no power	Change a new battery
	Single is weak	Keep away from the obstacles or interference source.
	Water gets into remote Or remote is damaged	Change a new remote
Motor is not running	Motor wire is short circuit.	Check the wire and connection

Door running direction is opposite to control	The value of F6 is incorrect	Reset vale of F6
Swing doors are not running simultaneously	Host and slave motor are set incorrect	Reset value of F8
Open and close position are not correct	Door is obstacle when learning limit	Restart power then learn limit.
Power on, the door is stop not reach limit switch after auto-detect closing	Auto-detect current is set to little	Increase the value of F3
Door doesn’t close to limit position	Arrive at limit position current is set to little	Increase the value of G3

Manage Time & Attendance for all your Branches from Head Office



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