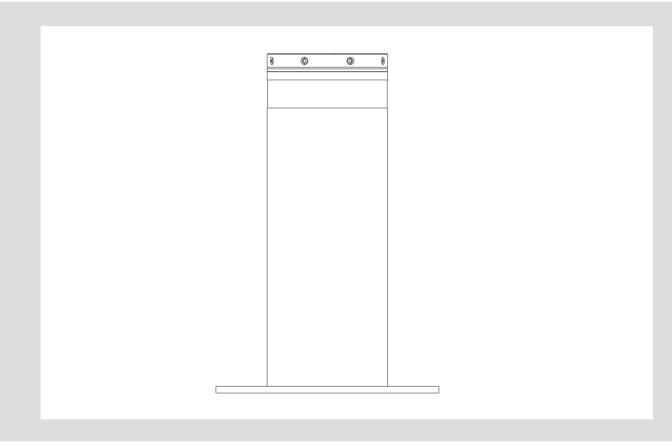
Automatic Bollard 36V DC Brushless Motor Driving



Installer and User's Manual Please read carefully before installing and using

Bollard is not for Pedestrians

Automatic Bollards are designed for security. They are powerful and can cause serious bodily injury or death. Accordingly, direct all pedestrian traffic to a separate walkthrough gate.

- 1. Before starting installation and operation or maintenance, cut off power supply.
- 2. The product must be earthed, And an Earth Leakage Breaker is necessary on the power supply.
- 3. Do not change the original inside wiring.
- 4. If power failure please cut o ffthe power supply first, then operate the bollard by manual handle.
- 5.Keep the remote controller out of the reach of children. The control system must be installed at a minimum height of 1.5m from the ground.
- 6. Operate only where you can see the bollard clearly
- 7. When the bollard is being operated, any people or vehicle is forbidden to pass.
- 8. Do not permit children to play on or around the bollard.
- 9. Operation in violation of relevant safety regulations or not mentioned in this Manual is not allowed.
- 10. Please keep this manual for maintenance reference.

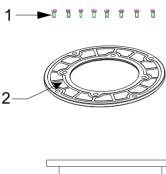


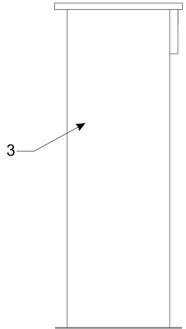
Bollards are not for Pedestrians!

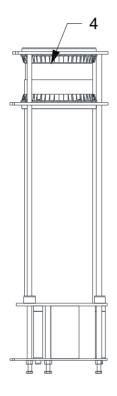
Auto-bollards are designed for vehicular traffic. They are powerful accordingly, direct all pedestrian traffic to a separate walk-through gate.

1. Structure -

- 1





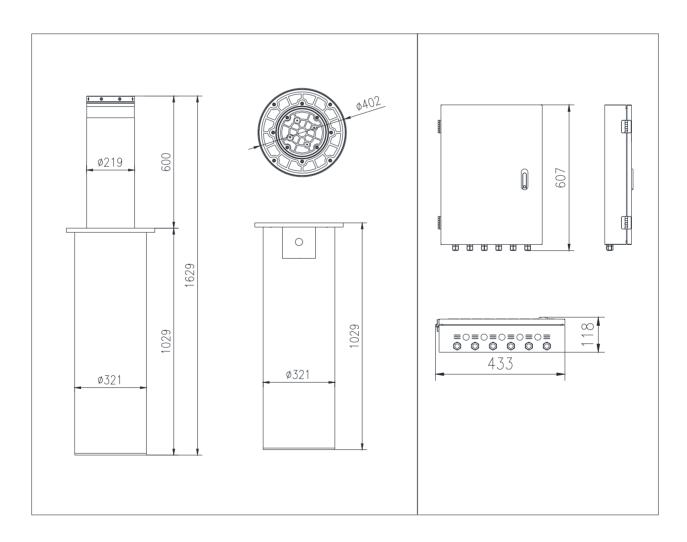


- ① Screw
- ② Lid of foundation case
- ③ Foundation case
- 4 Cylinder

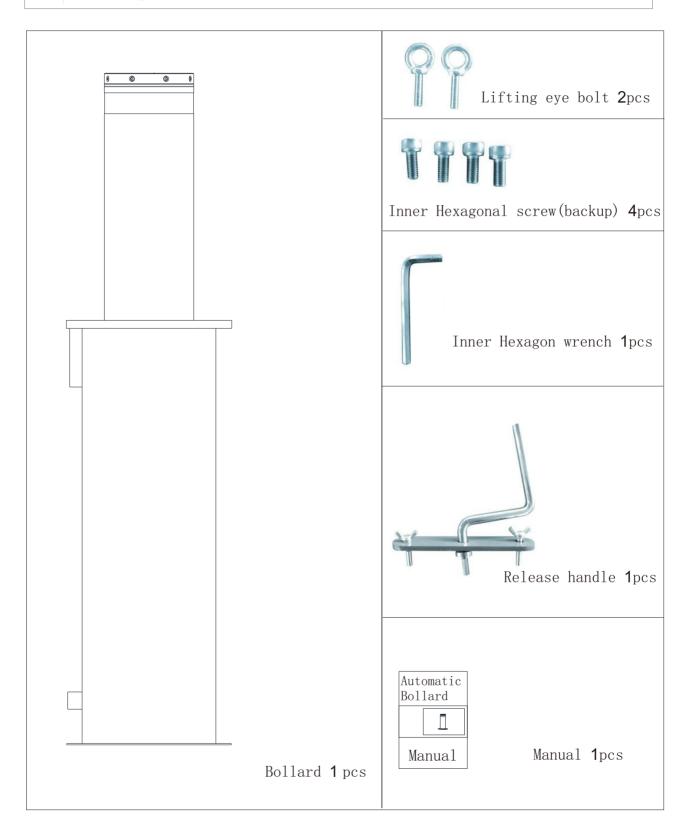
2. Technical data —

Motor Power	DC36V/350W
Driving mode	Electric motor
Warning Sign	LED light + Reflective tape
Up/down time	4S
Lift height	600mm
Operating	Push-button
Working environment	-30°C~55°C

3. Dimensions (unit: mm) _____

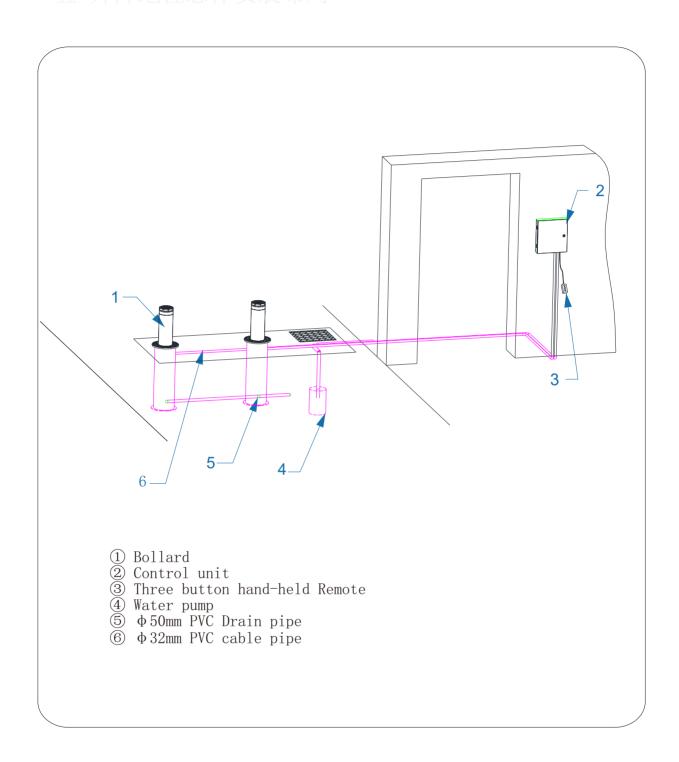


4. Package Kit -



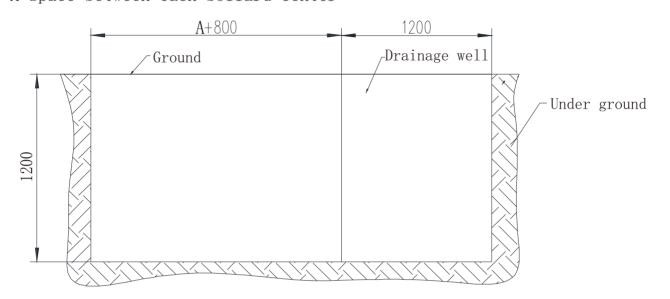
3

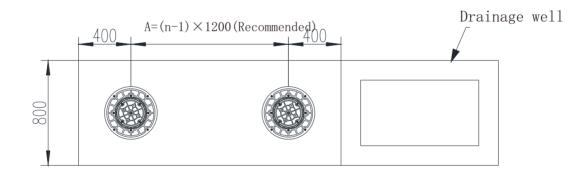
5. Installation layout



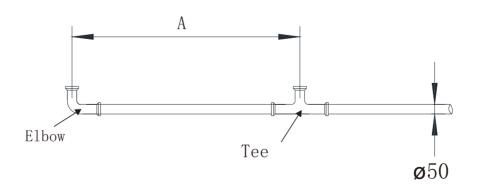
6. Installation

6.1. Dig the foundation as following picture. n=number of bollard A=space between each bollard center



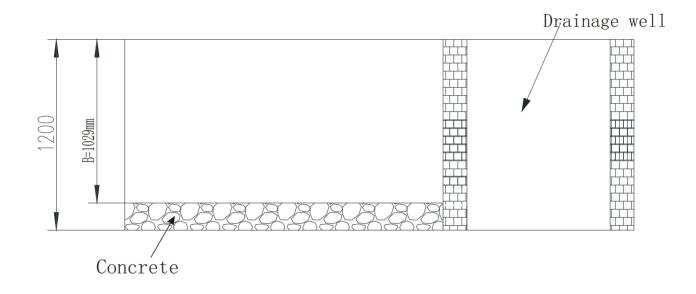


6.2. Assemble Drain pipe: ø50mm(PVC),

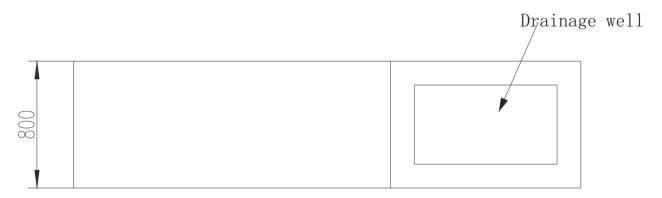


6.3. Install PVC drain pipe

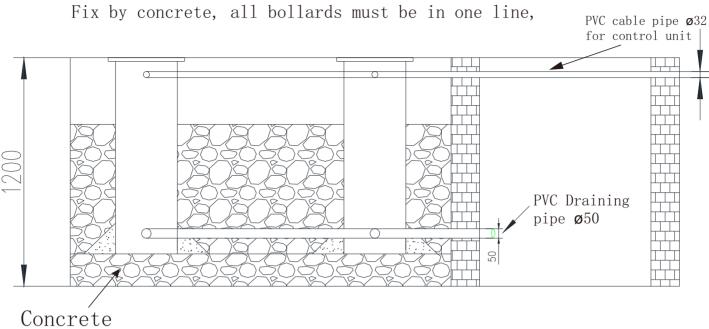
Fill with sand and concrete, make sure the $B=1029\mathrm{mm}$



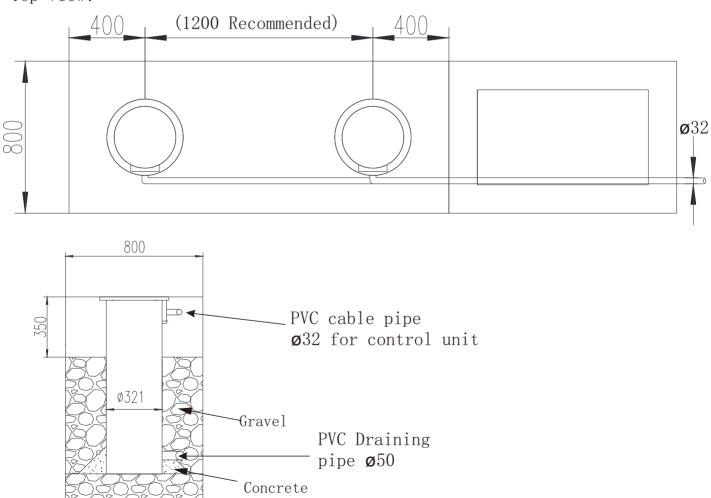
Top View



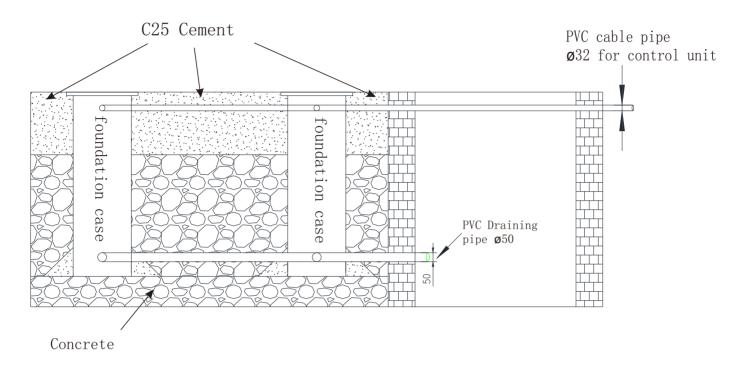
6.4. Install the foundation case.



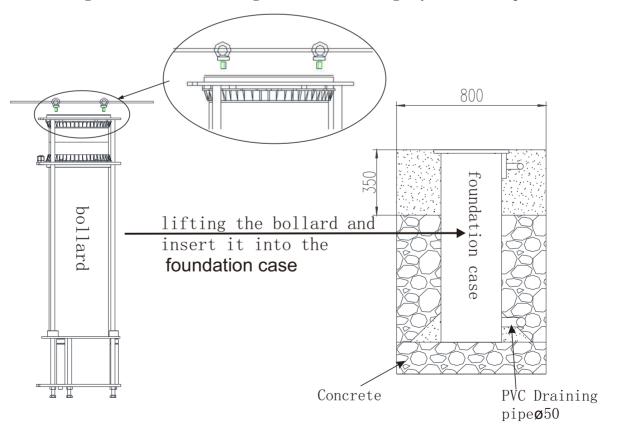
Top View:



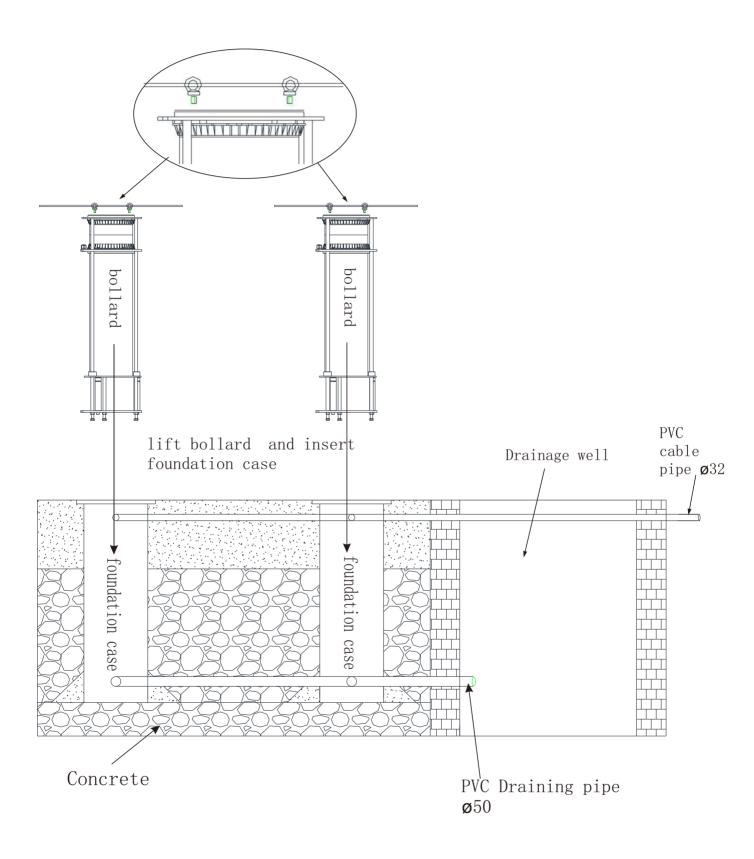
6.5. Fill concrete with No.C25 cement, Attention: Fix the cable pipe, don't make the cable pipe bent or broken.



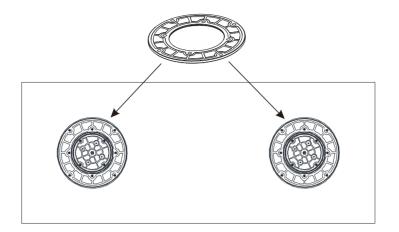
6.6. Lifting the bollard (Using the M8 lifting eye bolts 2pcs)



6.7. A standard Bollards Diagram



6.7. Connect the cable through the Ø32mm PVC cable pipe, then fix the Lids of foundation cases(8-M8).



6.8. Install the control unit in an appropriate place, connect wires refer to the wiring diagram in Pagell.

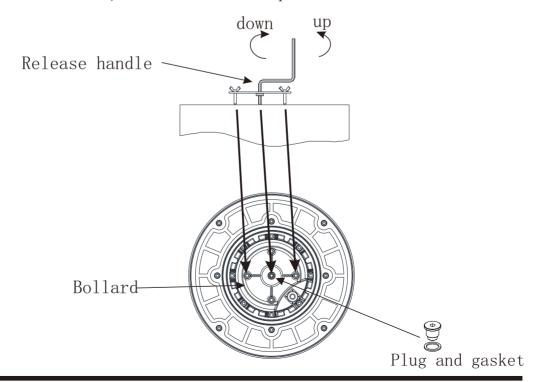
7. Up and Down manually

In case of power failure, the bollard can be up and down manually by release handle.

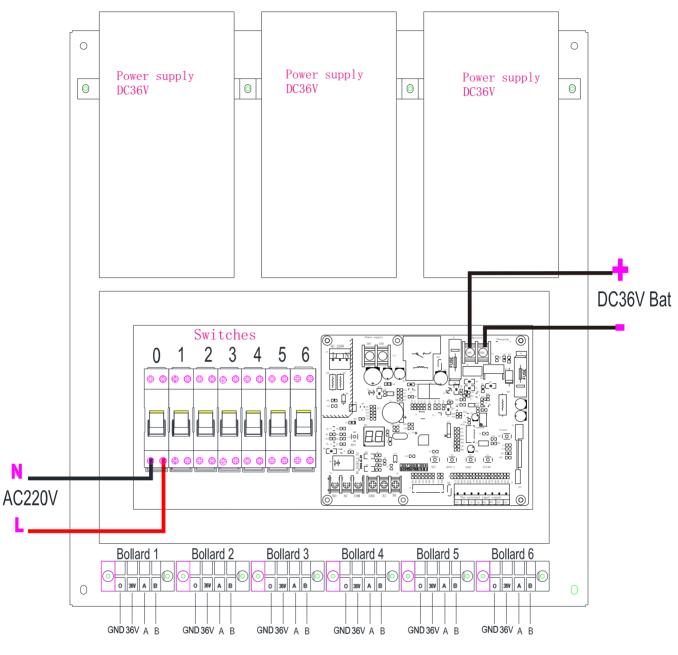
Attention: The power must be cut off!

Step:

- 1. Power off, remove the plug and gasket.
- 2. Fix the release handle by 2 screws as picture, rotate the handle, clockwise=down, anticlock wise=up



8. Wire connection



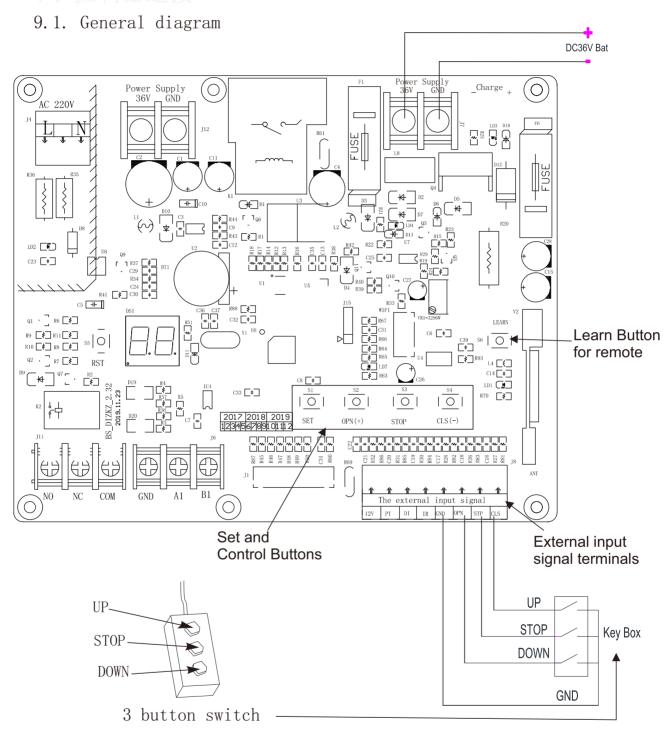
connectors of controller	GND	36V	A	В
bollard wires	black	red	yellow	blue

Mark: the wires for each bollard are the same.(bollard1, 2, 3, 4, 5, 6)

- 11 **---**

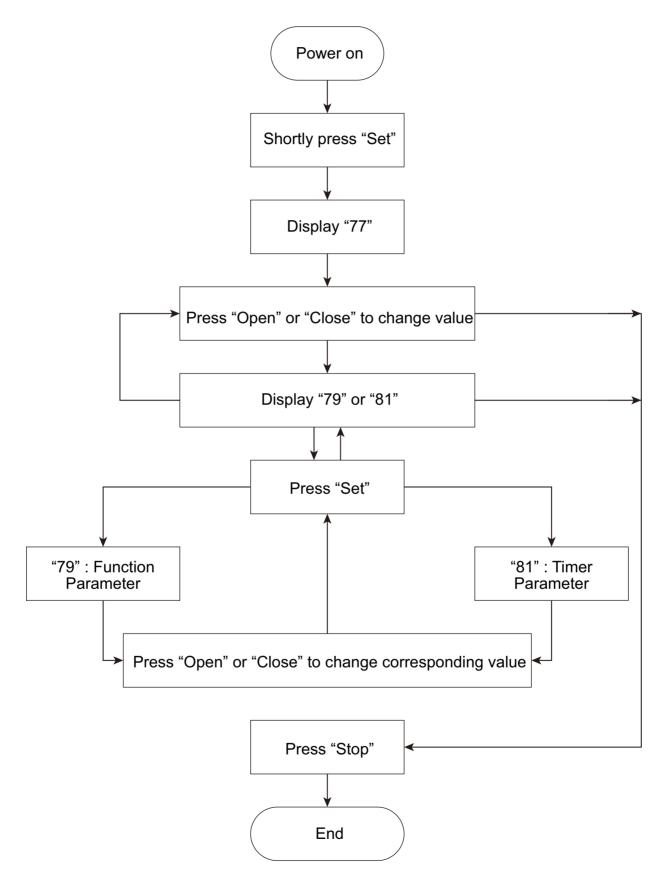
```
Attention: After connecting, power on, turn on switch No.0, display" - -", 3 seconds later, turn on switch No.1, display" 01".
3 seconds later, turn on switch No.2, display" 02".
3 seconds later, turn on switch No.3, display" 03".
3 seconds later, turn on switch No.4, display" 04".
3 seconds later, turn on switch No.5, display" 05".
3 seconds later, turn on switch No.6, display" 06".
```

9. Parameter setting-



Remark: Power o ffbefore connecting, turn on the air switch each 2-3s by number after connecting, display"01"- "06" means connecting well.

9.2 Parameters of Function and Time Resetting



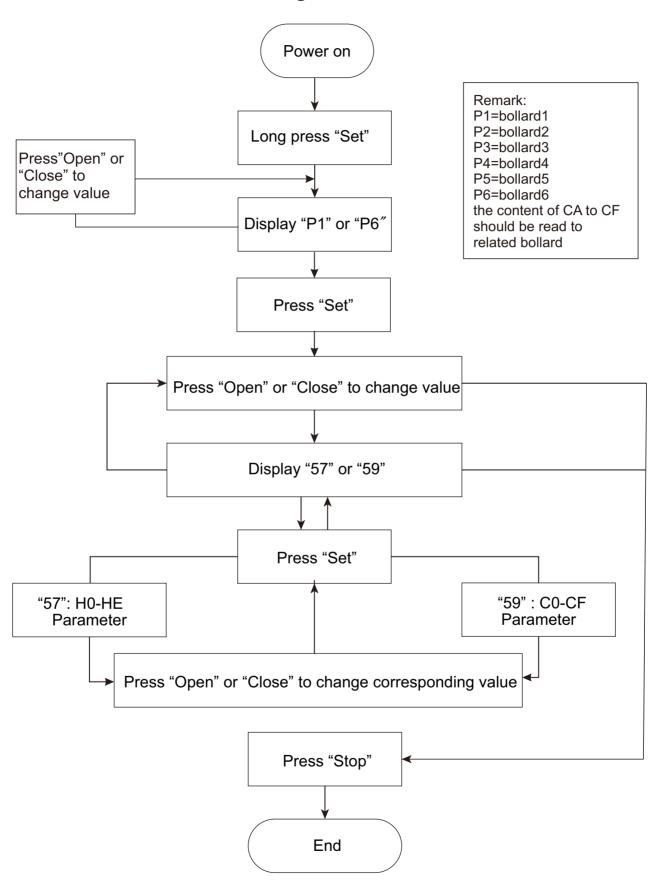
9.3 Function Definition

F0	Factory Setting (Caution!)
F1	Reserved
F2	Reserved
F3	Auto-Close Timer (s). Max.: 99s. Default: 00 (Means auto-close function disabled)
F4	00: Normal Mode (Default). 01: Counting Mode.
F5	00: Normal Mode (Default). 01: Stay OPEN.
F6	Reserved
F7	Reserved
F8	Signal Input Mode. 00: N.O. (Default). 01: N.C.
F9	Alarm or Light. 01: Light (Default) 00: Alarm.

9.4 Timer Definition

A0	Year
A1	Month
A2	Day
A3	Hour
A4	Minute
A5	Second
A6	Light-on Hour. Default: 16
A7	Light-on Minute. Default: 00
A8	Light-out Hour. Default: 08
A9	Light-out Minute. Default: 00

9.5 Drive PCB terminal setting



9.6 57 Parameter Definition

H0	Factory Setting (Caution!)
H1	Open speed Max
H2	Close speed Max
H3	Open speed Min
H4	Close speed Min
H5	Open force Min
H6	Reserved
H7	Open force Max
Н8	Reserved
Н9	Reserved
НА	Close force Min
Hb	Reserved
HC	Close force Max
Hd	Reserved
HE	Reserved

9.7 59 Parameter Definition

C0	Allowed Current Max
C1	Reserved
C2	Reserved
C3	Reserved
C4	Reserved
C5	Reserved
C6	Motor running forward or backward
C7	Max travel distance
C8	Led light exchange
C9	Reserved
CA	Version No.(P1-P6 separately)
Cb	First 2 digital number of working times: one working time=open/close once (P1-P6 separately)
CC	Second 2 digital number of working times: one working time=open/close once (P1-P6 separately)
Cd	Third 2 digital number of working times: one working time=open/close once (P1-P6 separately)
CE	Last 2 digital number of working times: one working time=open/close once (P1-P6 separately)
CF	Status of bollard

10. Trouble shooting —

No.	Trouble	Case	Shooting
Bollard does not work when power on		Parameter not be set	Check parameter setting
	No power	Check the power supply	
	_	The force is set too weak	Increase the current
2	Big noise	Motor is broken	Replace the motor