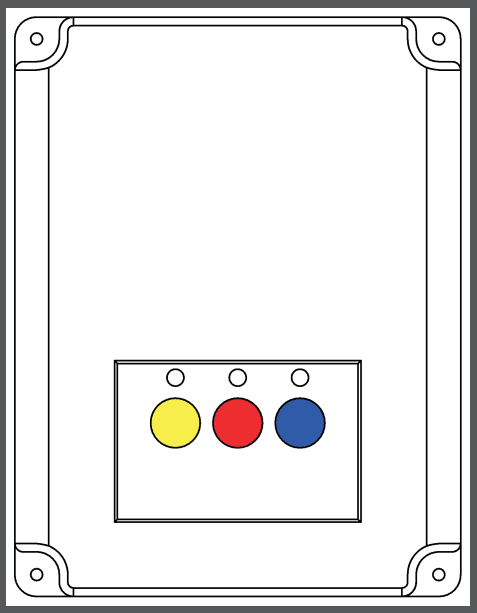
AUTOMATIC BARRIER OPERATOR

INSTRUCTION

DIGITAL LIMIT SWITCH



DZ - EN2.0

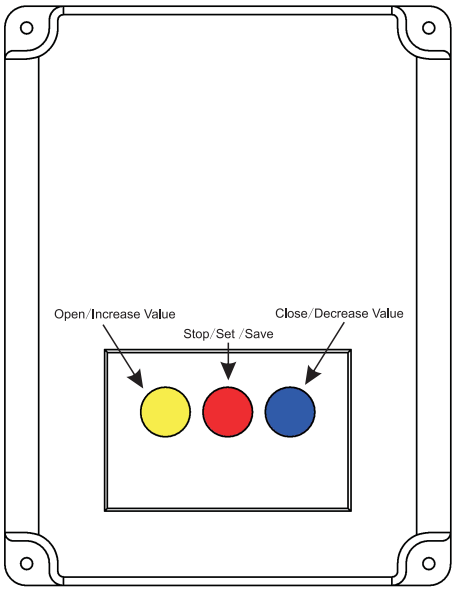
PLEASE READ THE MANUAL CAREFULLY BEFORE INSTALL AND USE

Warnings to installers and users

1. Before installation and use, please read this Manual carefully.
2. Avoid installing the product where there are vibrations, high-temperature, high-humidity, flammable, explosives, dust or corrosive gases.
3. As there is high voltage electricity inside the product, non-professionals should not arbitrarily open the lid to avoid electric shock. For debugging, look for professionals to help.
4. For loss and damage due to unauthorized changes to the original design of the product, the original manufacturer will assume no liability or responsibility.
5. An air-break switch must be connected with the power supply input connector.
6. Before power on and debug controller, manually adjust the barrier to the middle position.
7. The power must be cut off before manually operate the barrier.
8. Make sure that the path is unobstructed when the barrier is running.
9. Safety devices such as Air-wave switch and Photocell are highly recommended. Check and test them periodically to ensure that they are effective.
10. Please properly dispose the accessories including plastic bag and screws to avoid the hazards such as mistaking and chocking.
11. Please keep this Manual properly for reference.

1. Descriptions

1.1 Descriptions of Panel



1.2 Technical Specifications

Power supply	AC 220V 50/60Hz
Standby power	<2W
Output power	750W
Operating temperature	-20℃～50℃
Storage temperature	-30℃～70℃
Humidity range	<90%

1.3 Definitions of Buttons

Yellow	Red	Blue
Open/Increase Value	Stop/Set/Save	Close/Decrease Value

2. Main Features

2.1 Digital positioning, high precision, simple debugging.

2.2 Intelligent self-checking and self-protection.

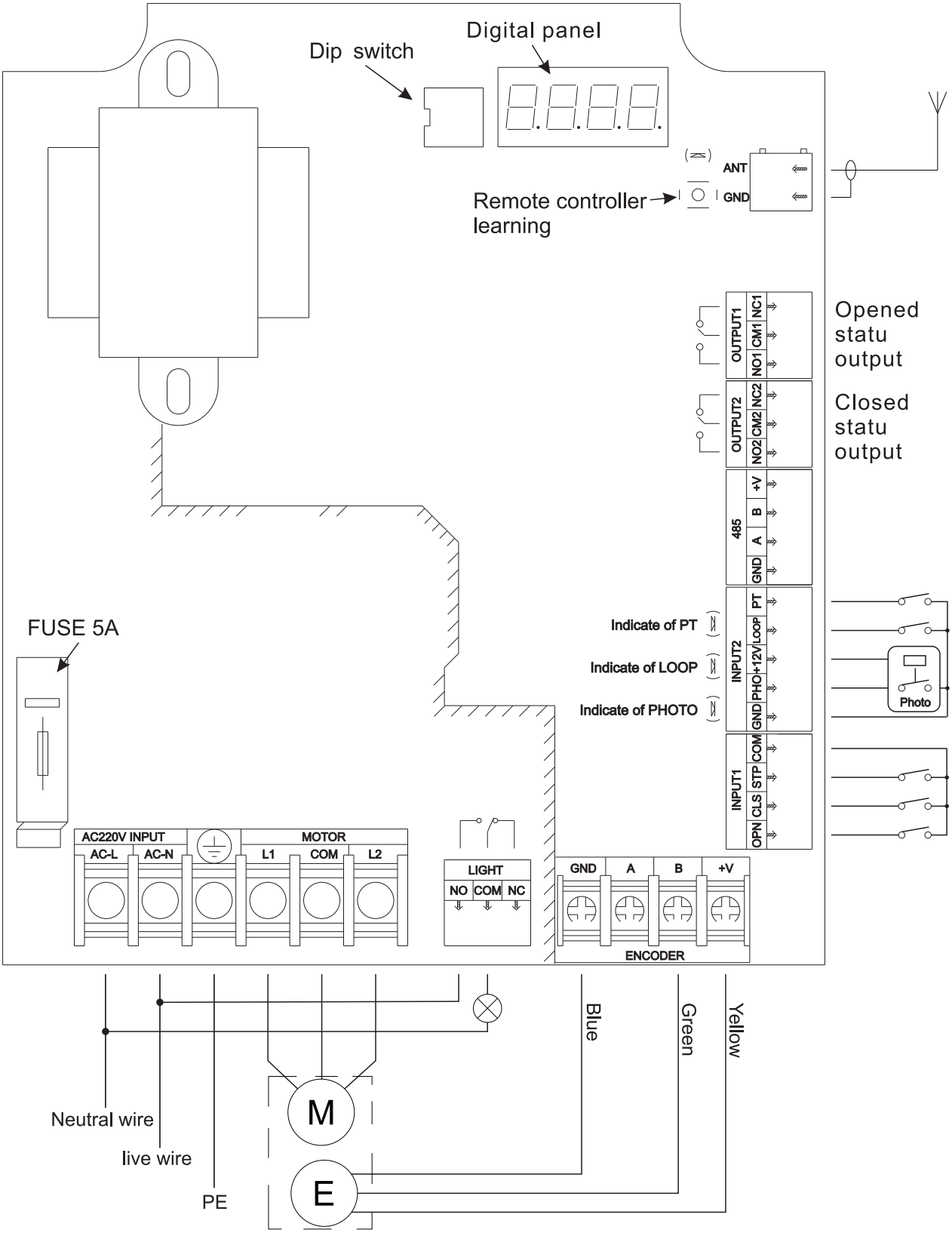
2.3 Delay automatic closing function.

2.4 Safety protection function is realized through the external sensors.

2.5 Remote control.

2.6 Counter mode

3. Electrical connections



4. Remote controller operation

a) Learning transmitter code

Press “LEARN” button which on the main board for one time, the LED light, then press a button on the transmitter for one time, the LED will flash. Repeat these steps for more transmitters.

Note: 1、The original transmitters has been matched the code, and customers do not need to do this.
2、New transmitters must to do the steps as above to remote the barrier.

b) Erasing transmitter code

If the transmitters are lost or illegally copied, please make the operation of erasing code to clear all codes that stored in the control box, after the operation, any transmitters can’t control the barrier.

Press and hold the”LEARN” button, the LED light, about 10 seconds later, the LED flash twice, the operate of erasing code is complete.

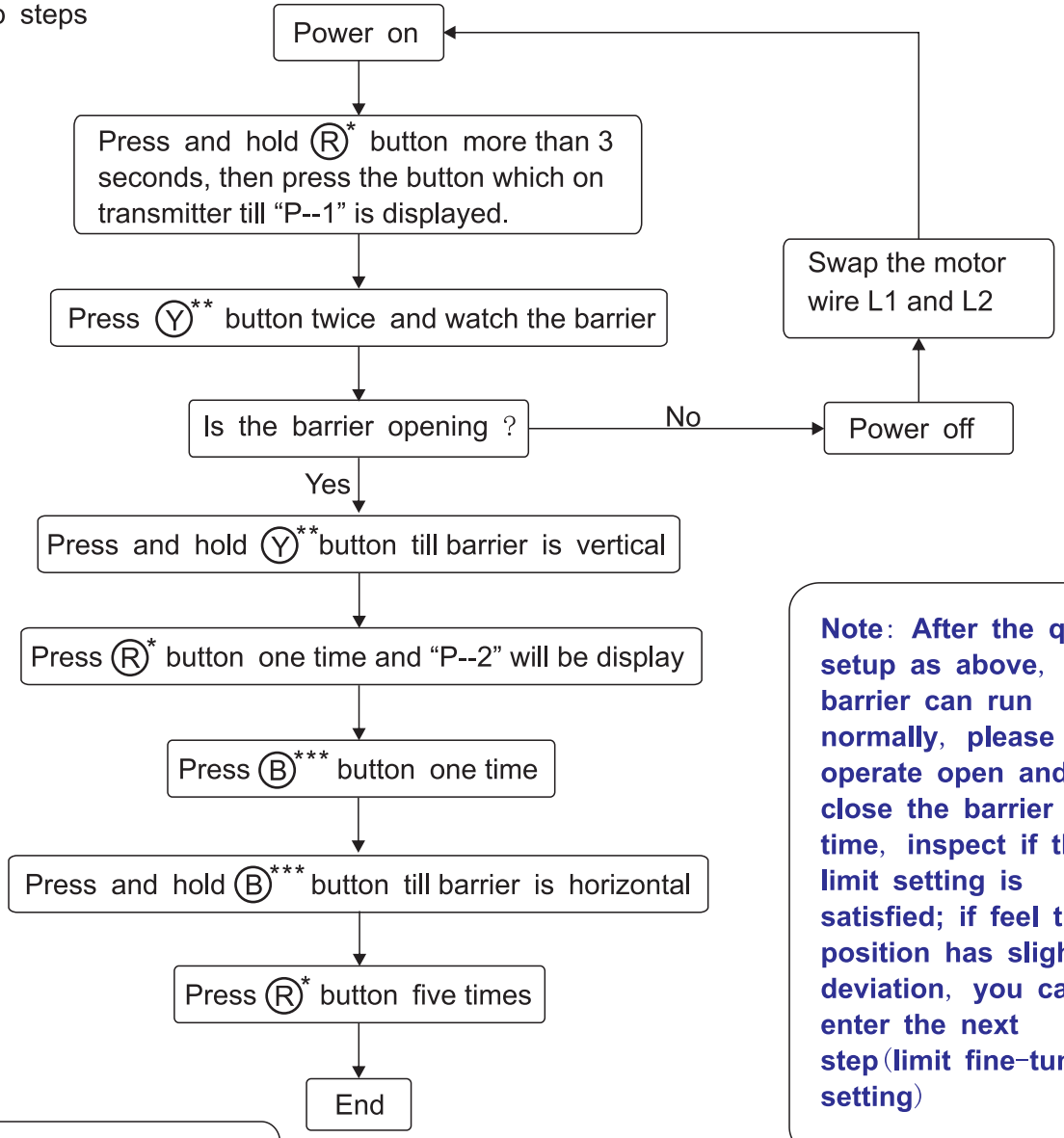
If transmitters need to use, please do step a again.

5. Limit setting

Open limit, close limit, the controller initially installed can operate normally through the following steps setup.

Note: For the controller initially installed, manually adjust barrier to middle position before power on.

Setup steps



Ⓡ* = Red button;

Ⓨ** = Yellow button;

Ⓑ*** = Blue button;

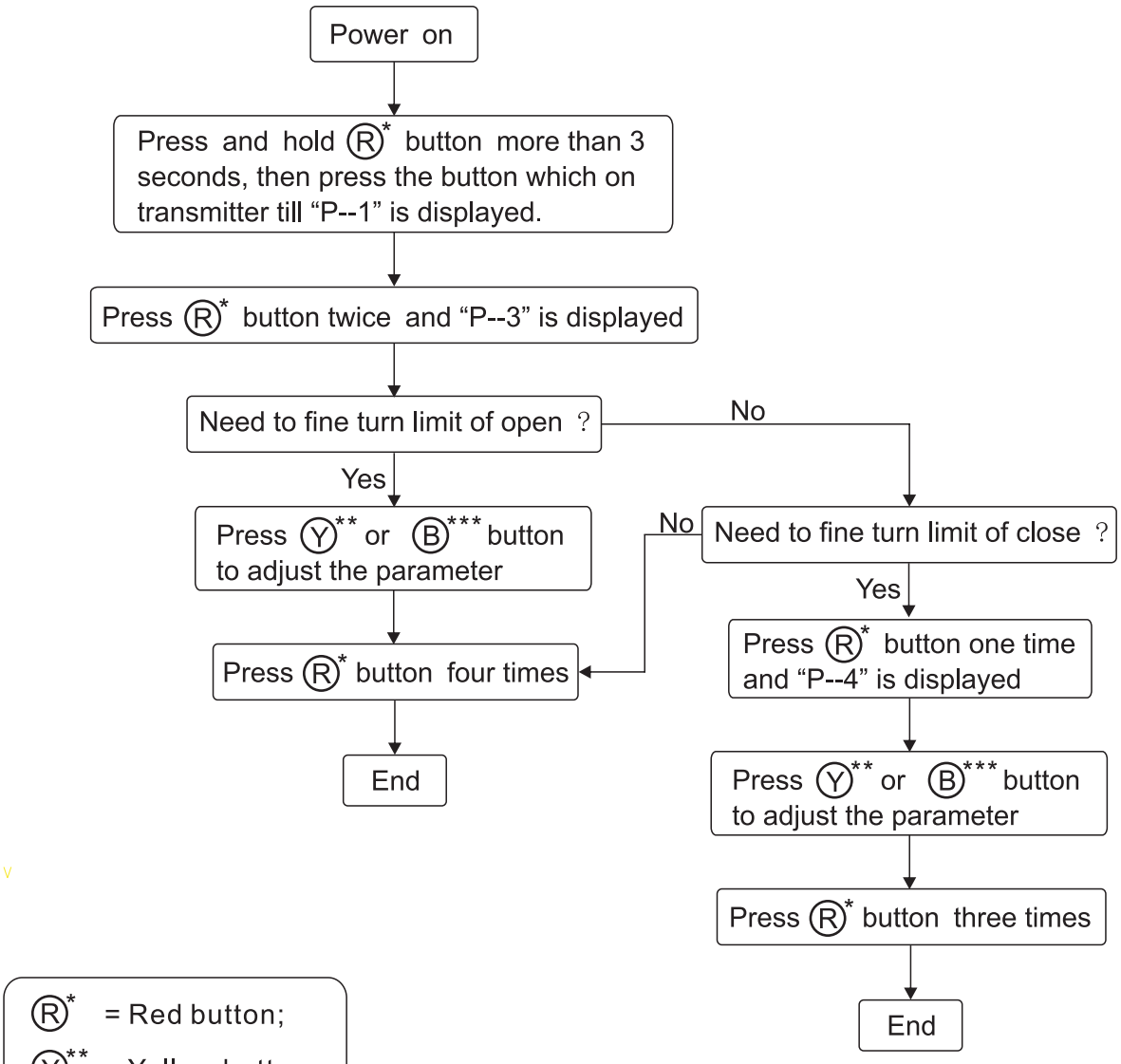
Note: After the quick setup as above, the barrier can run normally, please operate open and close the barrier each time, inspect if the limit setting is satisfied; if feel the position has slightly deviation, you can enter the next step (limit fine-tune setting)

6. Limit fine-tune Settings

Note: if you expect the barrier to stop farther than the original set position, please press Ⓨ button;**

if you expect the barrier to stop early than the original set position, please press Ⓑ* button.**

Setup steps



Ⓡ* = Red button;

Ⓨ** = Yellow button;

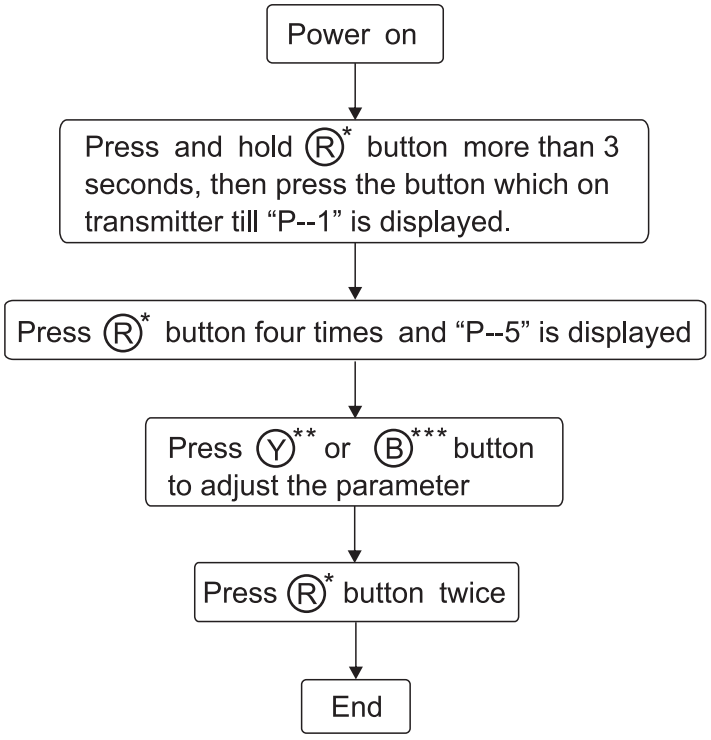
Ⓑ*** = Blue button;

7. Delay automatically close setting

Function description: The barrier will automatically close after a set time when the barrier fully open.

Note1: The factory default value is "0", means that the function is be cancelled.
Note2: The maximum delay value is about 99 seconds.

Setup steps



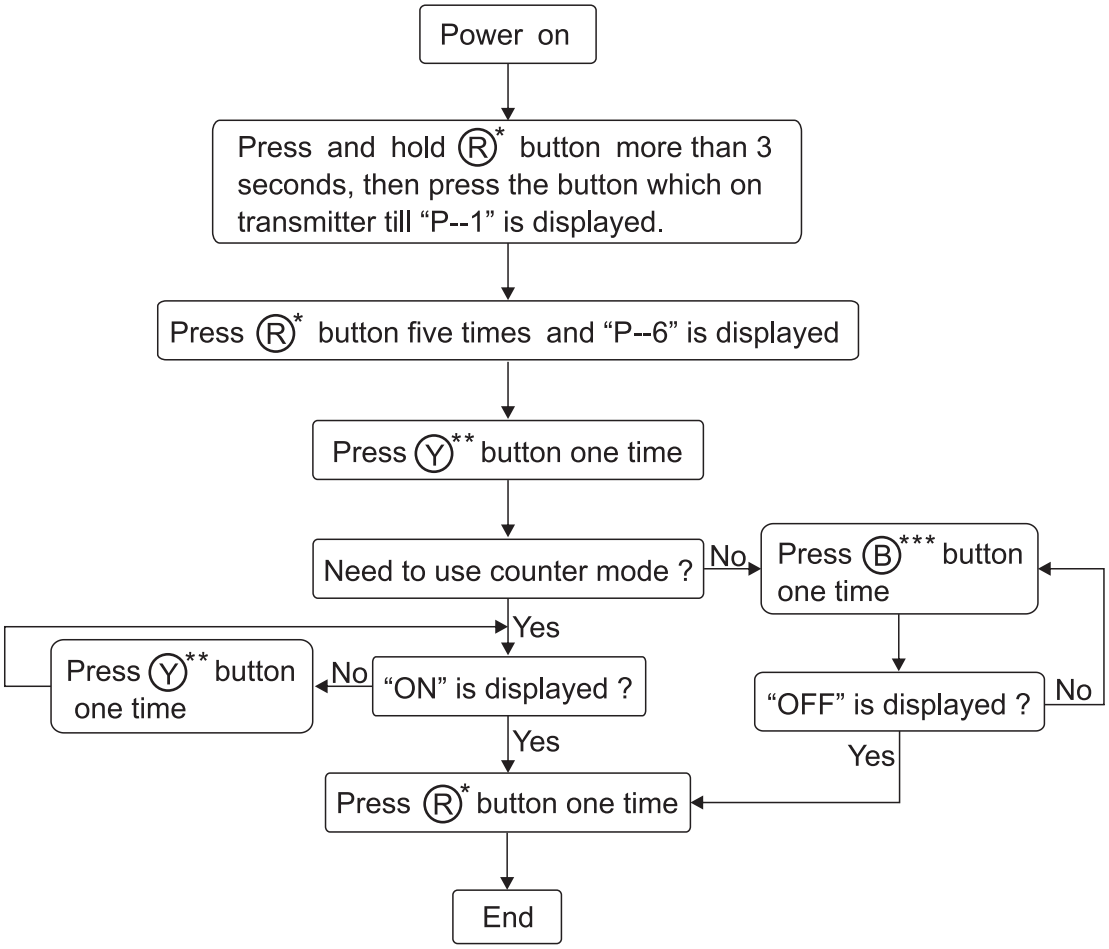
Note: Press and hold Ⓨ or Ⓑ*** button, the parameter will increase or descending .**

Ⓡ* = Red button;
Ⓨ** = Yellow button;
Ⓑ*** = Blue button;

8. Counter mode setting

Function description: If there are many open singles be enter, the barrier will automatically close after same times of vehicle cross the loop.

Setup steps

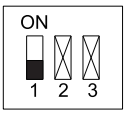
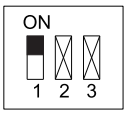
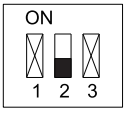
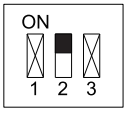
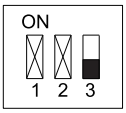
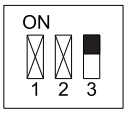


Ⓡ* = Red button;

Ⓨ** = Yellow button;

Ⓑ*** = Blue button;

9. Dip switch setting

Lamp mode setting		Please set as shown in left figure if a alarm lamp is connect.	Please set as shown in right figure if a red/green lamp is connect.	
Selection of protection signal type (Normally open or Normally close)		Please set as shown in left figure if the output signal from protector is normally open. The protector such as photocell, air wave, loop.	Please set as shown in left figure if the output signal from protector is normally close. The protector such as photocell, air wave, loop.	
Selection of display mode		Please set as shown in left figure if you want it to display the running status of the barrier	Please set as shown in left figure if you want it to continuously display the encoder value.	

10. Error Codes Table

Code	Meaning	Solution
Err1	Encoder signal is invalid	Check the signal wires and connectors
Err2	Barrier operation timeout	Check the mechanical system
Err3	Motor Locked Rotor	1. Check the mechanical system 2. Check motor wires connectors
Err7	Photocell is triggered	Remove the object that block the photocell
Err8	Air wave is triggered	Remove the object that block the air wave
ErrA	Parameter of limit is invalid	Set parameter “P--1” & “P--2” again, refer to page 6.