

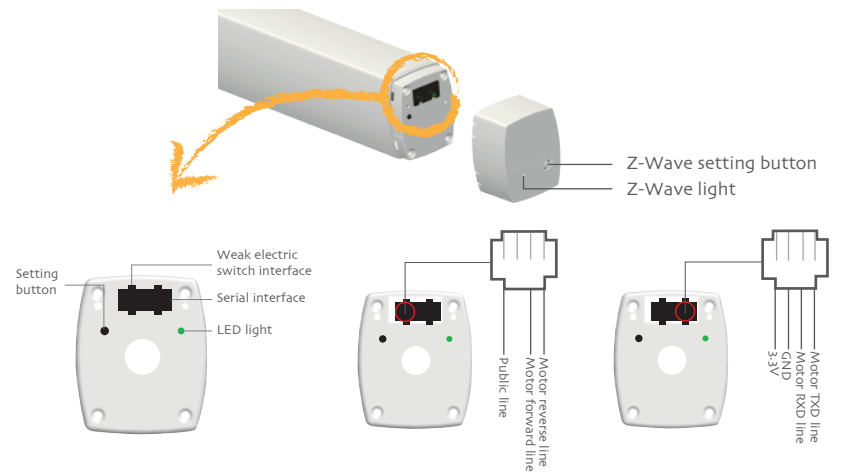
Curtain Motor- DT82TV/F Specification



(A-00)

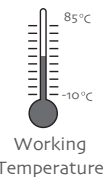
Product introduction

DT82TV/F is a security enabled Z-Wave Plus Product. It supports security standard S2 and the security standard S0.



Functional features:

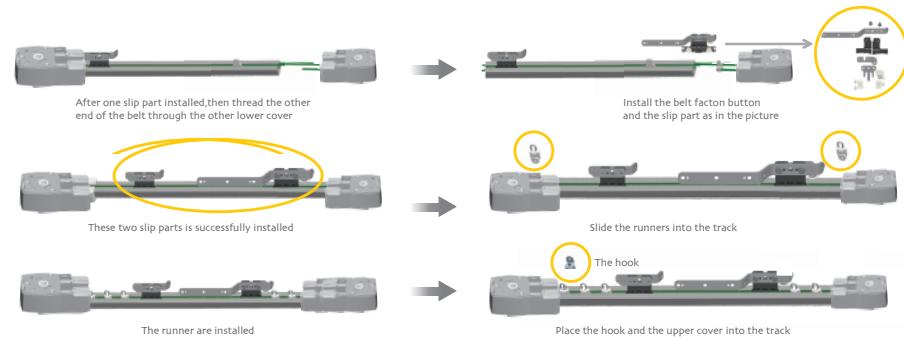
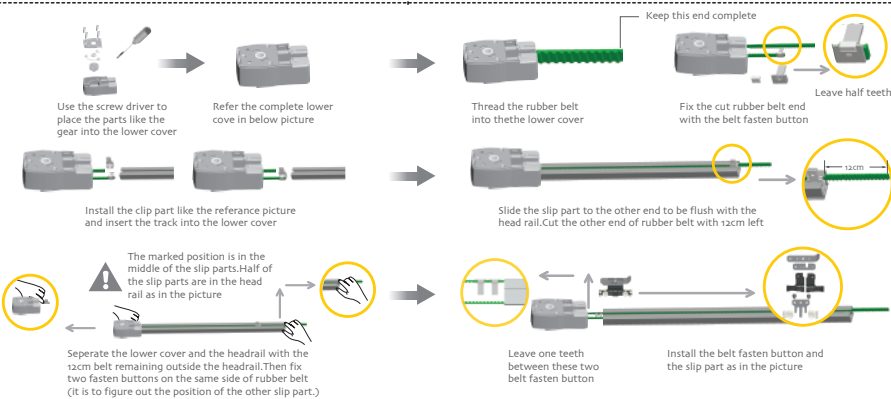
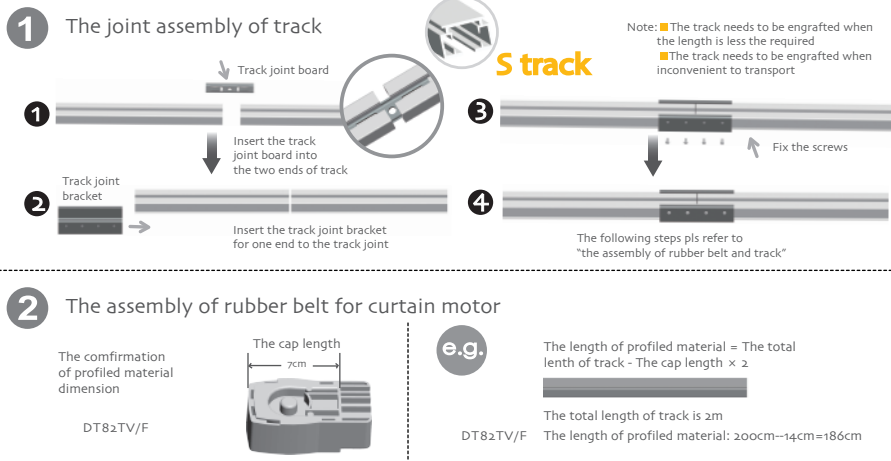
- Weak electric switch selection function
- Strong electric switch selection function
- Serial interface communication control
- The third limit position setting function
- Z-Wave setting
- Hand-pull function
- Resistance and stop function
- Electronic memory limit function
- Manual setting for limit boundaries function



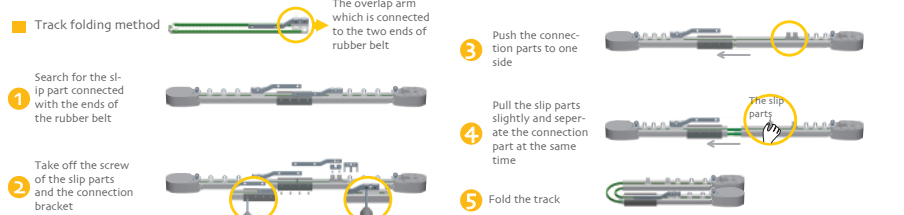
Parameter (More models and parameters are subject to the nameplate)

Type	DT82TV/F
Rated Torque(N.m)	1.2N.m
Open/close Speed(cm/s)	14cm/s
Rated Voltage(V)	AC 100V~240V
Emission Frequency(MHz)	433-925MHz
Z-Wave Frequency(MHz)	868.4MHz EU;908.4MHz US

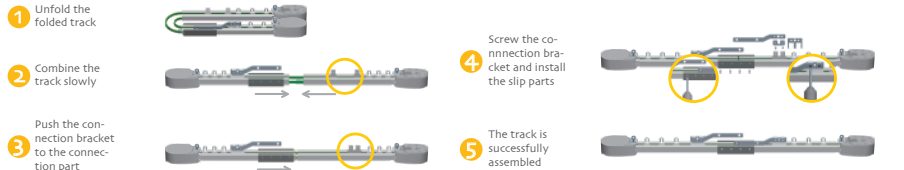
Motor installation



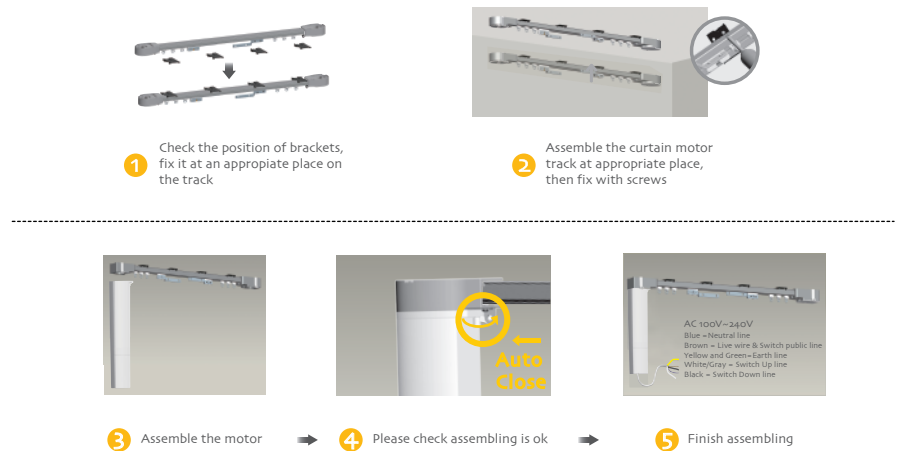
3 Folding method for joint track (for easy transit)



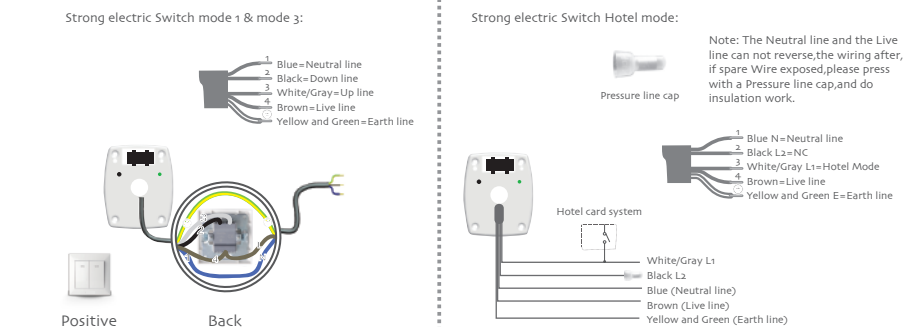
Restoring the track



4 The installation method of curtain motor



5 Strong electric Switch installation of curtain motor



Note: Specific operation see back <Strong electric switch mode selection> action bar.

Operation note

Please read the following precautions before use:

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

- Operating:
 - The valid interval of the emitter button is 10s,the emitter will quit the set after 10s;
 - The LED flashes for hint,please do the next step after the hint.
- Set limit position:
 - Every time you install the motor,first set after a curtain opened travel to work properly;
 - After setting,with power off and memory function,after each power cycle required to open or close a recovery limit;
 - After replacing the track or cord to be removed for the limit,and then set limit.
- When the motor running without any operation,the maximum running time is 4 minutes,it will stop automatically.
- If the emitter lost,please set up again with new emitter.

5. Z-Wave setting:
①Associations:
This product support 2 association groups; each group supports max 5 associated nodes.GROUP 1 is lifeline service that assigned to curtain motor position. It enables the curtain motor to send reports to Z-Wave Controller or Z-Wave Gateway whenever the motor is starting or stopped.
The Group Support:
SWITCH_MULTILEVEL_REPORT_V3
DEVICE_RESET_LOCALLY_NOTIFICATION
GROUP 2 allows for Send Multilevel Report to associated devices in this group.This Group Support:
SWITCH_MULTILEVEL_REPORT_V3
②Support Command Class

Command class	Version	Secure
COMMAND_CLASS_BASIC	V1	
COMMAND_CLASS_ZWAVEPLUS_INFO	V2	
COMMAND_CLASS_VERSION	V2	Yes
COMMAND_CLASS_MANUFACTURER_SPECIFIC	V2	
COMMAND_CLASS_SWITCH_MULTILEVEL	V3	
COMMAND_CLASS_SWITCH_BINARY	V1	
COMMAND_CLASS_DEVICE_RESET_LOCALLY	V1	
COMMAND_CLASS_ASSOCIATION	V2	Yes
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION	V3	
COMMAND_CLASS_ASSOCIATION_GRP_INFO	V1	Yes
COMMAND_CLASS_CONFIGURATION	V1	
COMMAND_CLASS_POWERLEVEL	V1	Yes
COMMAND_CLASS_TRANSPORT_SERVICE	V2	
COMMAND_CLASS_SECURITY	V1	
COMMAND_CLASS_SECURITY_2	V1	
COMMAND_CLASS_SUPERVISION	V1	Yes
COMMAND_CLASS_FIRMWARE_UPDATE_MD	V4	

Basic Mapping:

Basic Set = 255 maps to Multilevel Switch = 255

Basic Set = 0 maps to Multilevel Switch = 0

Basic Set = 1-99 maps to Multilevel Switch = 1-99

Basic Get/Report maps to Multilevel Switch Get/Report

③Advanced configuration:

1.Set the direction:This parameter can be used to set the motor rotation direction,the motor direction is forward (Configuration Value set to 0) or the opposite direction(Configuration Value set to 1).The default value is 0.

Command Parameter Number Size Configuration Value Default

CONFIGURATION_SET 1 0~1 0

2.Set to start holding hands:This parameter can be used to set the motor open hand start function(Configuration Value set to 0) or closed(Configuration Value set to 1).The default value is 0.

Command Parameter Number Size Configuration Value Default

CONFIGURATION_SET 2 0~1 0

3.Configure weak electric switch mode:This parameter can be used to set the need of weak electric switch mode. Provide 4 kinds of weak electric switch mode is optional,respectively:Double-button reboundable switch(Configuration Value set to 1),Double-button not reboundable switch(Configuration Value set to 2),DC246 switch(Configuration Value set to 3),Single-button cyclic switch mode(Configuration Value set to 4).The default value is 1.

Command Parameter Number Size Configuration Value Default

CONFIGURATION_SET 3 1 1~4 1

4.Configure strong electric switch mode:This parameter can be used to set the need of strong electric switch mode. Provide 3 kinds of weak electric switch mode is optional,respectively:Double-button not reboundable(Configuration Value set to 0),Hotel mode(Configuration Value set to 1),Double-button reboundable mode(Configuration Value set to 2).The default value is 0.

Command Parameter Number Size Configuration Value Default

CONFIGURATION_SET 4 1 0~2 0

5.Read whether the total limit is set:This parameter can be used to read the motor's total limit is already set.Not set the limit(Read into the Configuration Value is 0);Already set the limit(Read into the Configuration Value is 1)

Command Parameter Number

CONFIGURATION_GET 5

6.Read the device type:This parameter can be used to read the type of the motor.Motor types are divided into curtain motor(Read into the Configuration Value is 0x01),shutter(Read into the Configuration Value is 0x11),Venetian blinds (Read into the Configuration Value is 0x12)

Command Parameter Number

CONFIGURATION_GET 6

7.Read the motor power supply type:This parameter can be used to read the motor power supply type.The power of motor is classified into:Mains power supply(Read into the Configuration Value is 0),battery power(Read into the Configuration Value is 1).

Command Parameter Number

CONFIGURATION_GET 7

8.Manually set / cancel open borders:Manually set the open boundary of the curtain(Configuration Value set to 1), cancel manually open the border of the curtain(Configuration Value set to 0).

Command Parameter Number Size Configuration Value

CONFIGURATION_SET 8 1 0~1

9.Manually set / cancel close borders:Manually set the close boundary of the curtain(Configuration Value set to 1), cancel manually close the border of the curtain(Configuration Value set to 0).

Command Parameter Number Size Configuration Value

CONFIGURATION_SET 9 1 0~1

10.Delete the limit:This command can delete the limit that has been set for the motor.

Command Parameter Number Size Configuration Value

CONFIGURATION_SET A 1 7F

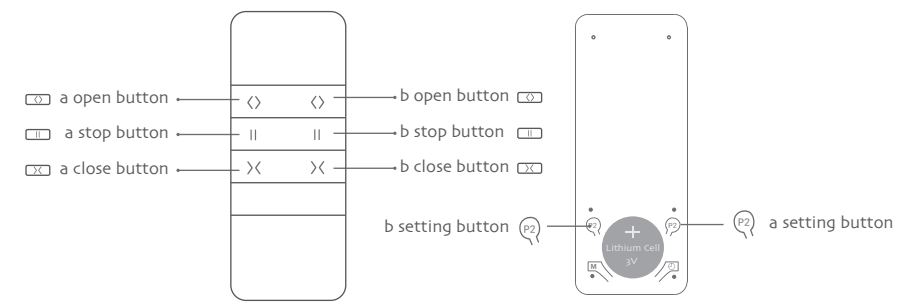
④This device is a security enabled Z-Wave Plus product that is able to use encrypted Z-Wave Plus messages to communicate to other security enabled Z-Wave Plus products

⑤This device must be used in conjunction with a Security Enabled Z-Wave Controller in order to fully utilize all implemented functions.

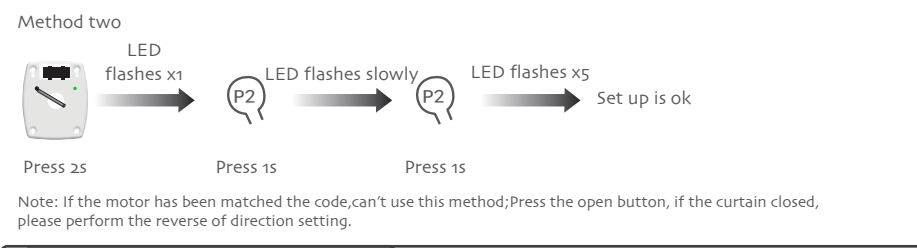
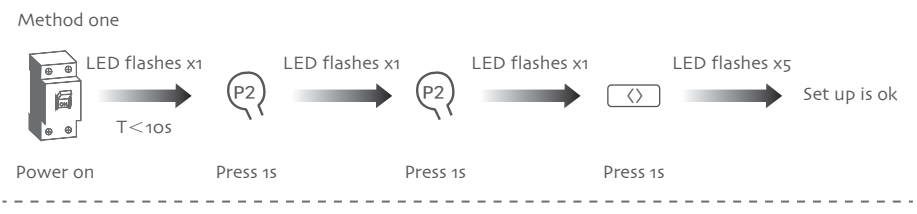
⑥This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.



Button specification

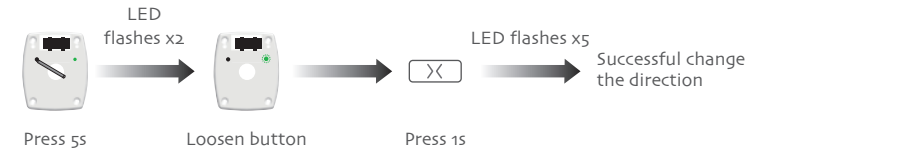


1 Setting up

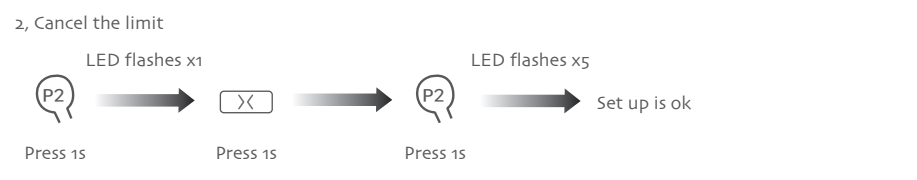
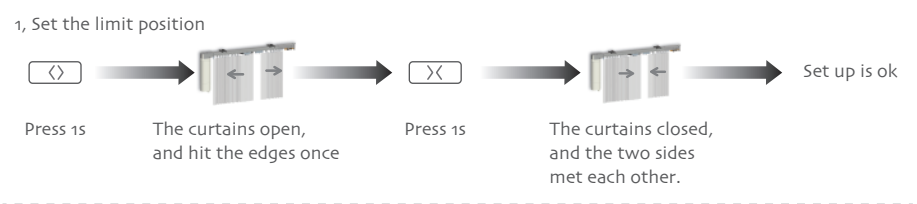


Note: If the motor has been matched the code,can't use this method;Press the open button, if the curtain closed, please perform the reverse of direction setting.

2 The reverse of direction setting

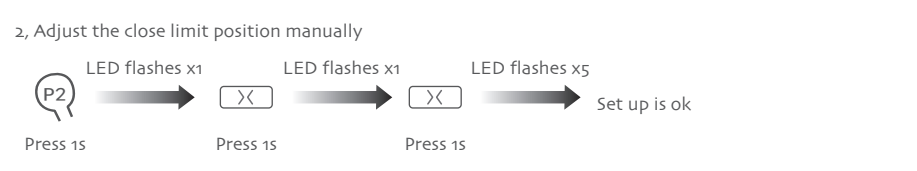
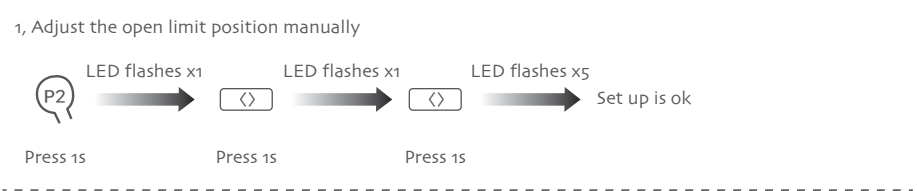


3 Limit position setting

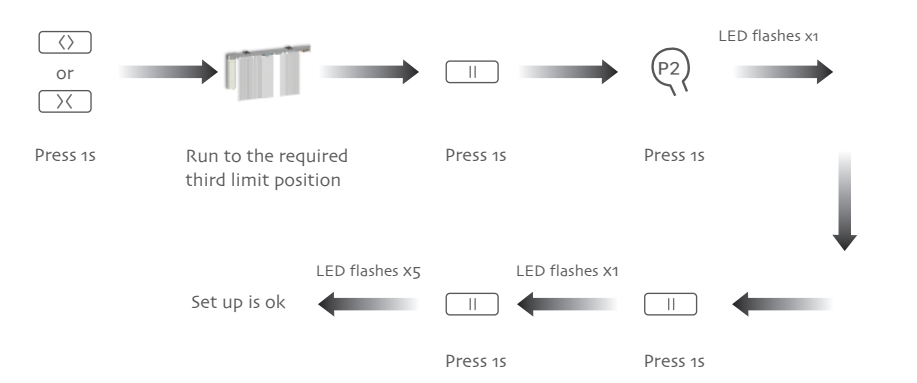


4 Manual setting for limit boundaries

In the state has been set to limit, the curtain to need to run to the curtain open/closed position,can perform the following actions.

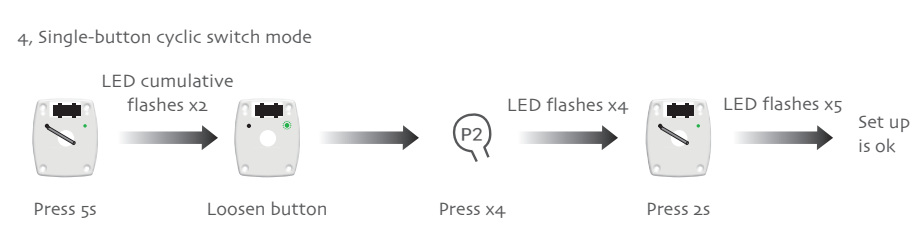
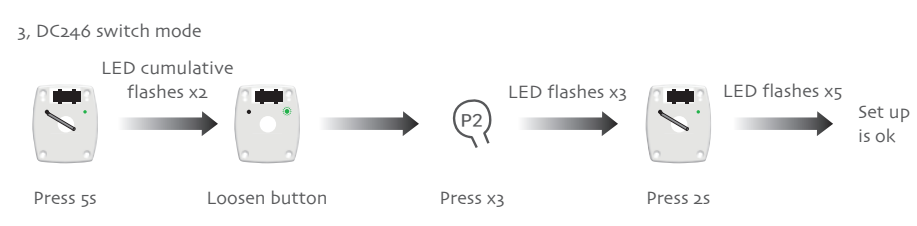
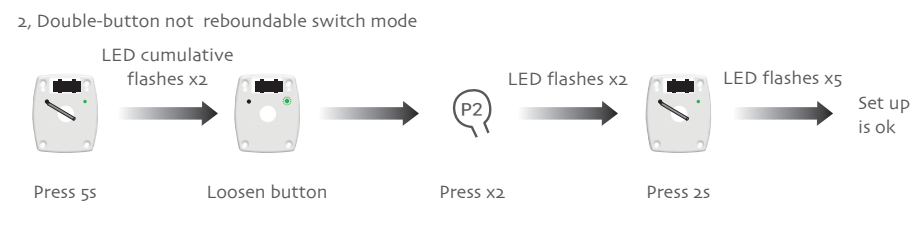
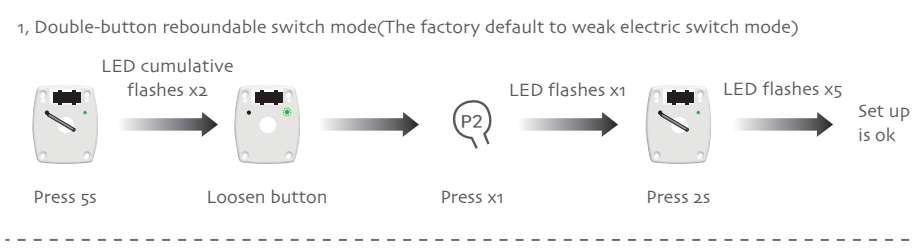


5 The third limit position setting

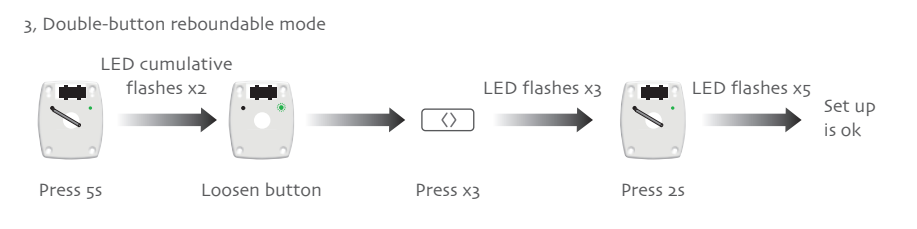
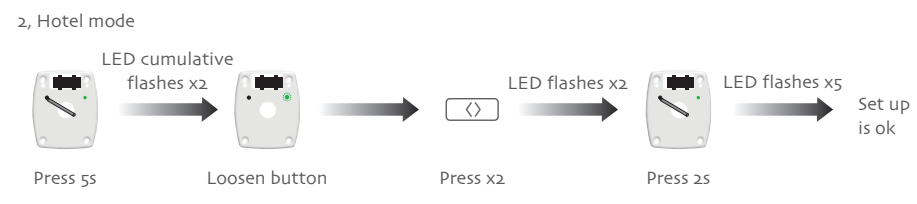
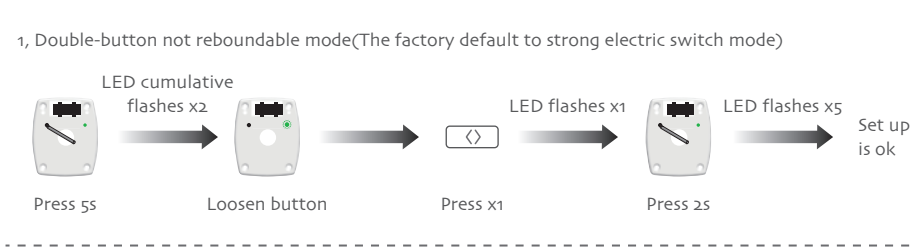


Note: The clear third limit point method same as set the limit point;Long press the stop button for 2s,the motor moves to the third limit position automatically.

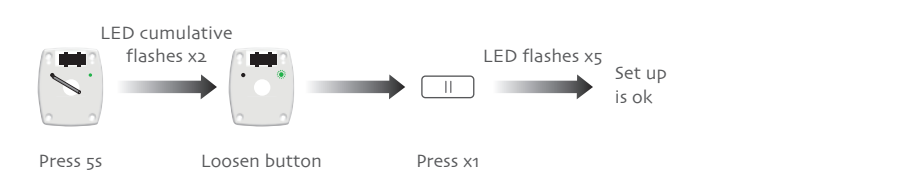
6 Weak electric switch mode selection



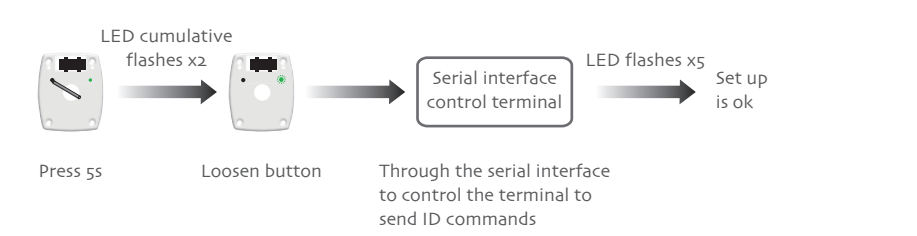
7 Strong electric switch mode selection



8 Touch-start



9 Serial interface setting up

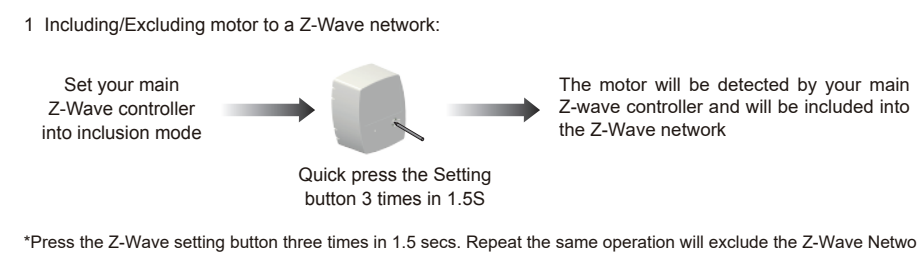


10 Z-Wave setting

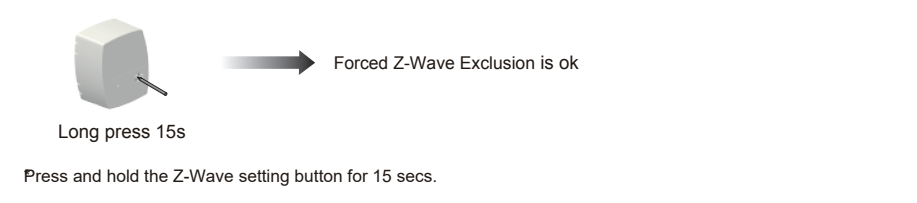
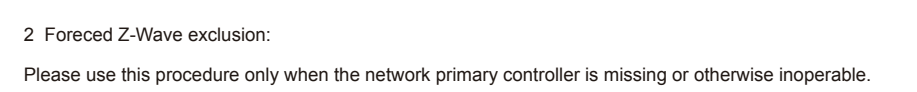
1 LED Status Indicator

Meaning	Status Indicator
Off-network	Slow Flash
On-network	Turn Off
Z-Wave network inclusion/exclusion	Flash continuously
Forced Z-Wave exclusion	Flash once

2 Z-Wave Network Inclusion / Exclusion



*Press the Z-Wave setting button three times in 1.5 secs. Repeat the same operation will exclude the Z-Wave Network.



Press and hold the Z-Wave setting button for 15 secs.

Fault and solution

NUMBER	COMMON FAULTS	PROCESSING METHOD
1	The motor is not running	Check the power supply
2	Unable to control remote controller	Replace the emitter battery
3	Remote control on the contrary	Implement the reverse of direction setting
4	Remote switch on the contrary	Replacement switches line order
5	Cannot close	1, Check emitter's open button to ensure if it works with open function;if not,please change direction firstly;2, check limit position;
6	Always hit or couldn not get to the edge	Cancel the limit,setting again
7	With the hand to pull,feeling stuck	Set the limit of the limit
8	Encounter obstacles will not stop	Check the screw used to fixed orbital