BINTHIN Intelligent Curtain Introduction

HANGZHOU BINTHEN INTELLIGENCE TECHNOLOGY CO., LTD (BINTHEN) focuses on the design, research and development, manufacturing, and sales of intelligent curtain products. BINTEN mainly produces intelligent home products such as curtain electric rails, electric curtain lifting systems, electric Roman poles, curtain tubular motors and controllers, shutter motors and controllers, opening and closing curtain motors and controls, and supporting products.

Intelligent curtain motor for every common home

Manual Operation: When powered on, the curtain could be pull by hand with 10cm. Then the curtain open or close automatically.

Manual operation without power: Without power, the curtain could be controlled by hand.

Obstacle stop function: the motor could stop when it meets obstacle ,in order to protect the system.

Automatical position: motor could remember the close and open position, users do not need to reset.

Multi-control: users can choose different ways to control, such as remote contorl or swtich.
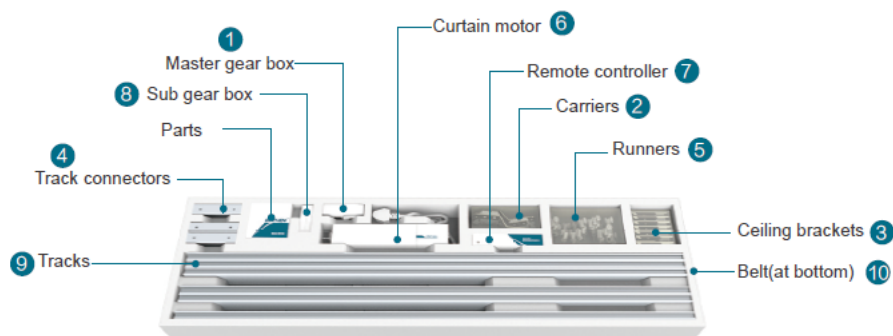
Freely assembling: DIY design and customized tracks.

This document contains important technical and safety information about the device and its safety use and installation. Before beginning the installation, please read this guide and any other documents accompanying the device carefully and completely. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of the law or refusal of legal and/or commercial guarantee (if any).
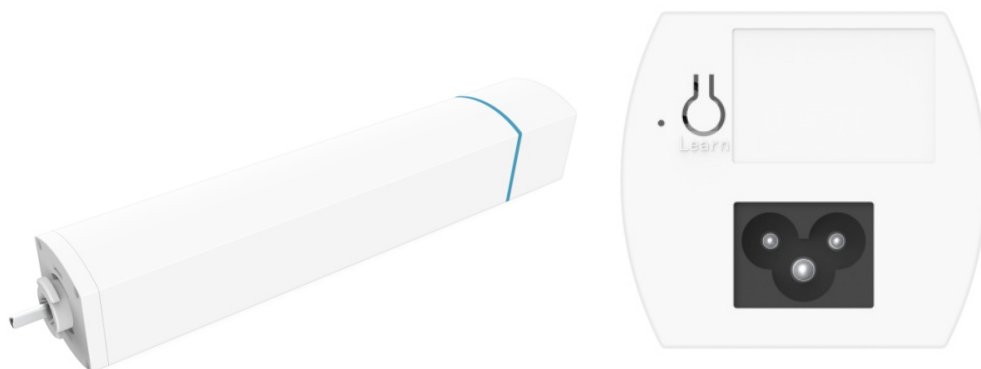
BINTHEN is not responsible for any loss or damage in case of incorrect installation or improper operation of this device due to failure of following the user and safety instructions in this guide.

Attention! Please refer to the User Manual and Intelligent Control Manual for complete installation steps and usage instructions.

Motorized Curtain Track System Instruction

Motor Parameters

Product Model	Torque	Operating Voltage	Frequency	Power	Max Load	Runing Noise	Protection Level	Communication Type	Signal Frequency	Maximum Average EIRP Power
BCM500DS-TYW	1.2Nm	AC100V-240V	50/60HZ	40W	50KG	35Db	IP3X	Wifi 2.4G	433.93MHz	15.55dBm
BCM500DS-TYW-2Nm	2.0Nm	AC100V-240V	50/60HZ	80W	80KG	35Db	IP3X	Wifi 2.4G	433.93MHz	15.55dBm
BCM500DS-TYZ	1.2Nm	AC100V-240V	50/60HZ	40W	50KG	35Db	IP3X	ZigBee 2.4G	433.93MHz	15.55dBm
BCM100DC	1.2Nm	AC100V-240V	50/60HZ	40W	50KG	35Db	IP20	switch	x	x
BCM100D5X	1.2Nm	AC100V-240V	50/60HZ	40W	50KG	35Db	IP20	switch	x	x
BCM100D-RS485	2.0Nm	AC100V-240V	50/60HZ	80W	80KG	35Db	IP20	Z-wave	868MHz	15.55dBm

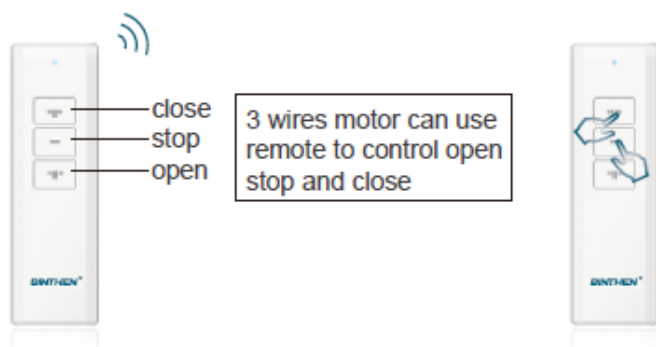Operational range (depending on terrain and building structure): up to 50 m outdoors, up to 30 m indoors.

CAUTION! Do not let children play with curtain motors that are powered on.

3 WIRES MOTOR SOLUTIONS

Functions

3 wires motor as basic motor can be control by remote,weak current dry contact switch and so on, applicable to multi-scene.

Change the control mode

— close
— stop
— open

3 wires motor can use remote to control open stop and close

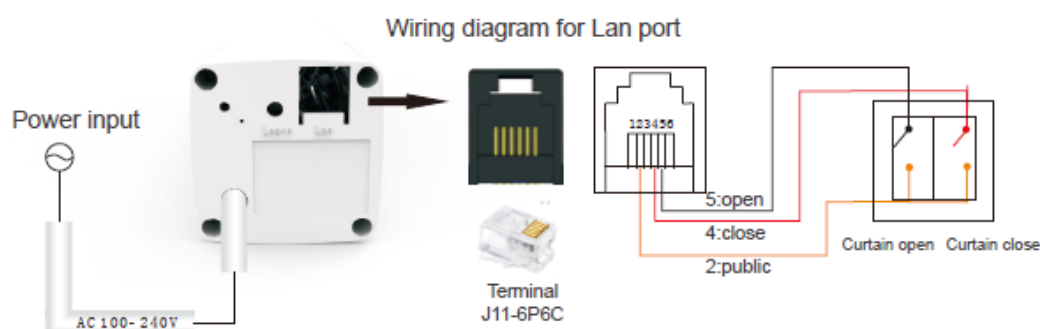**Change the control mode for weak current dry contact switch:**

Hold close and stop buttons in same time for 3 seconds, the motor will vibrate once,control mode change to next mode.

Mode1:applicable to double interlock switch(Factory default settings)
Mode2:applicable to double reset switch
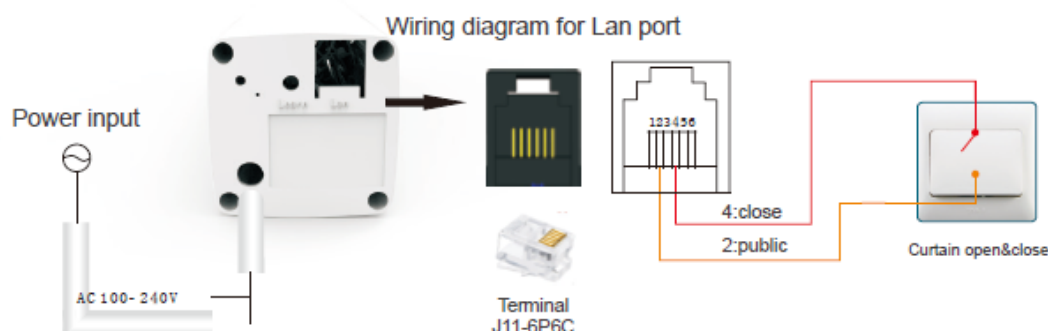Mode3:applicable to single reset switch

Wiring diagram for weak current double button switch

Wiring diagram for Lan port

Power input

AC 100- 240V

123456

Terminal
J11-6P6C

5:open
4:close
2:public

Curtain open   Curtain close

The switch type of weak current double button switch

1.Interlock switch
Motor control mode should be mode 1.
2.Reset switch
Motor control mode should be mode 2.

Wiring diagram for weak current double button switch

Wiring diagram for Lan port

Power input

AC 100- 240V

123456

Terminal
J11-6P6C

4:close
2:public

Curtain open&close

The switch type of weak current single button switch

Reset switch
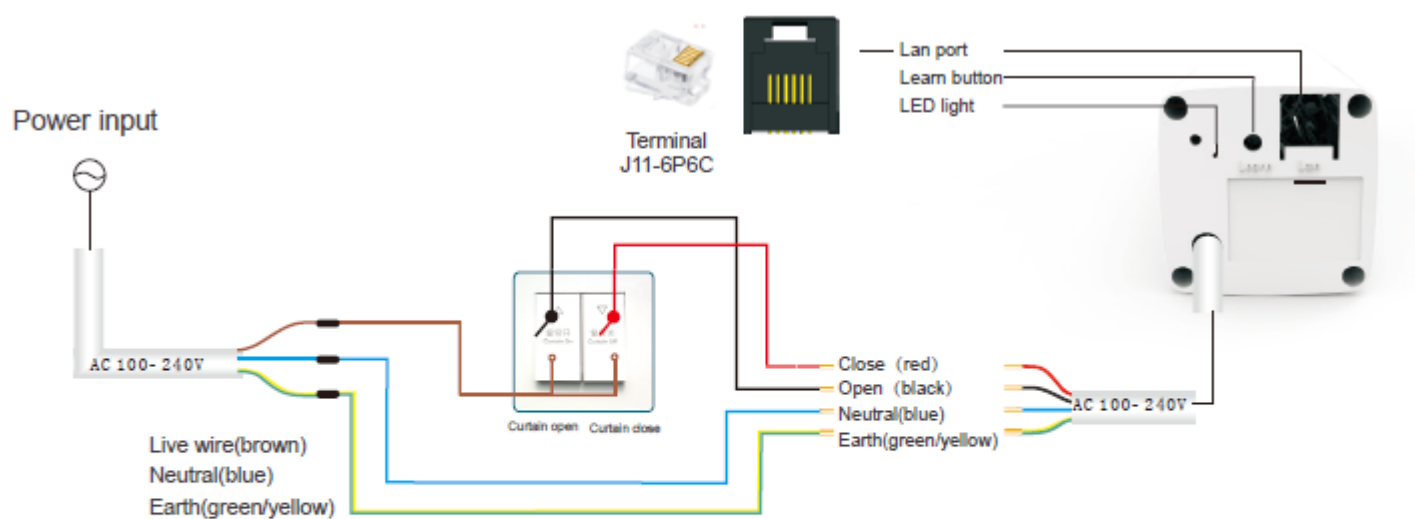Motor control mode should be mode 3.

4 WIRES MOTOR SOLUTIONS

Functions

4 wires motor not possess RF control, not support remote control,only use strong current switch.
Applicable to hotel,smart home and decoration project etc.

Wiring diagram and functions

Notice:
switch type is strong current double interlock switch,
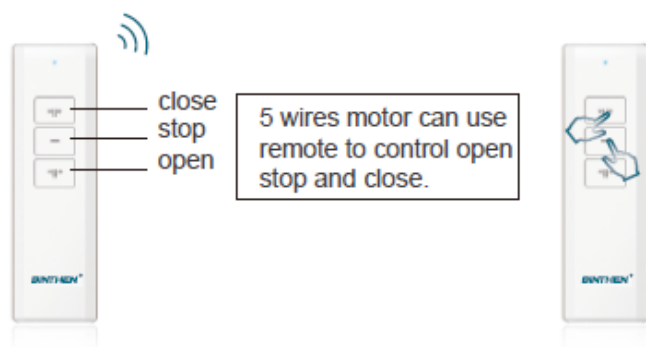4 wires motor can't connect with weak current switch

Power input

Lan port
Learn button
LED light

Terminal
J11-6P6C

AC 100- 240V

Live wire(brown)
Neutral(blue)
Earth(green/yellow)

Curtain open   Curtain close

Close　(red)
Open　(black)
Neutral(blue)
Earth(green/yellow)

AC 100- 240V

Wiring diagram

5 WIRES MOTOR SOLUTIONS

5 wires motor possess RF control, support remote control,strong current dry contact switch, strong current switch,plug-in card power supply and so on.Applicable to hotel,smart home and decoration project etc.

Change the control mode

close
stop
open

5 wires motor can use remote to control open stop and close.

Change the control mode for weak current dry contact switch:

Hold close and stop buttons in same time for 3 seconds,
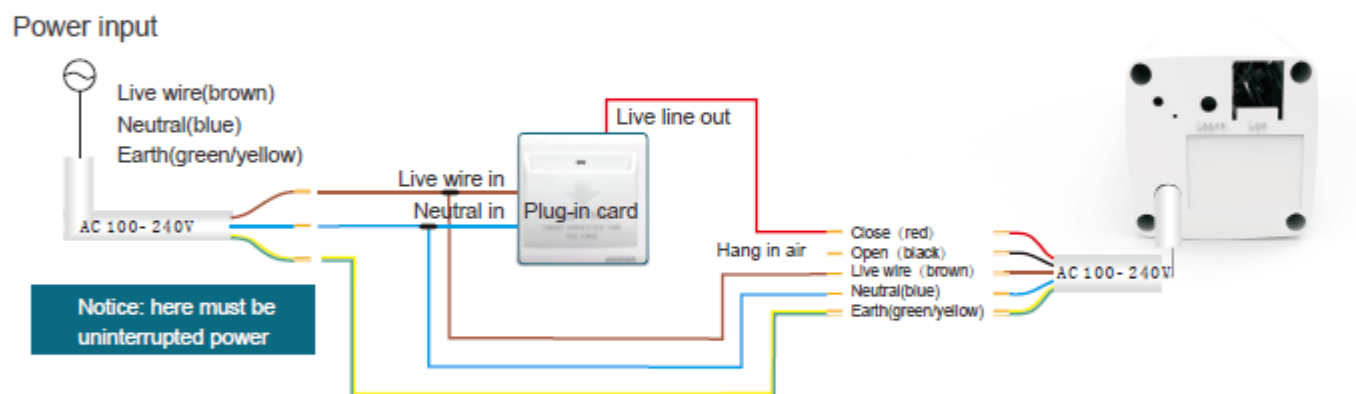the motor will vibrate once,control mode change to next mode.

Mode1:applicable to double interlock switch(Factory default settings)

Mode2:applicable to double reset switch
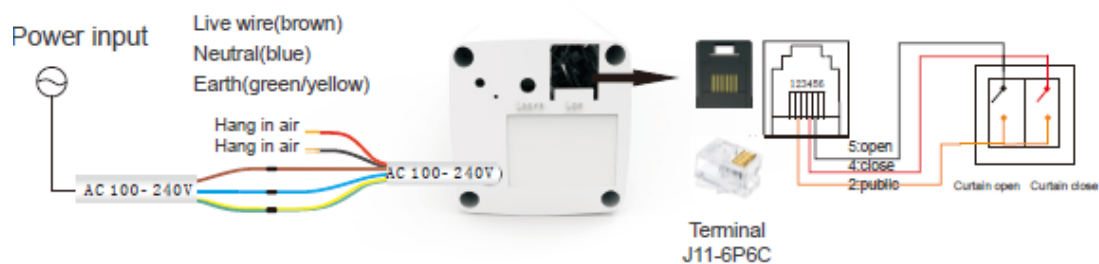
Mode3:applicable to single reset switch

mode4:applicable to plug-in card power supply

Wiring diagram for plug-in card power supply

Power input

Live wire(brown)
Neutral(blue)
Earth(green/yellow)

Live line out

Live wire in
Neutral in   Plug-in card

AC 100- 240V

Notice: here must be uninterrupted power

Hang in air

Close (red)
Open (black)
Live wire (brown)
Neutral(blue)
Earth(green/yellow)

AC 100- 240V

The control mode should be mode 4 when use plug-in card power supply,
take off card curtain will open, put in card curtain will close.
If you need to use switch and plug-in card in same time,you can only connect
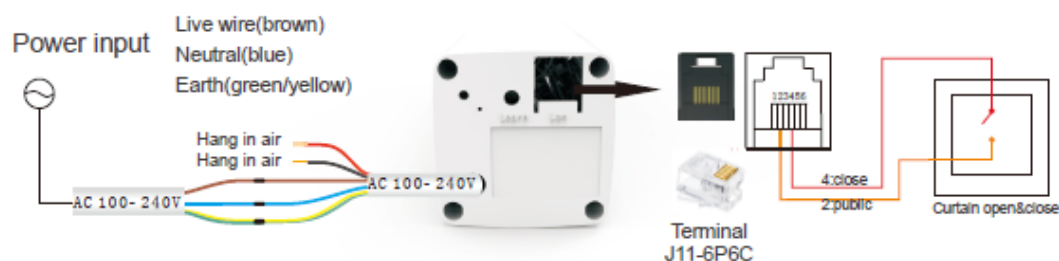weak current double interlock button with Lan port,can't use strong current switch

Wiring diagram for weak current double button switch

Power input

Live wire(brown)
Neutral(blue)
Earth(green/yellow)

Hang in air
Hang in air

AC 100- 240V

AC 100- 240V

Terminal
J11-6P6C

123456

5:open
4:close
2:public

Curtain open   Curtain close

The switch type of weak current
double button switch

1.Interlock switch
Motor control mode should be mode 1.
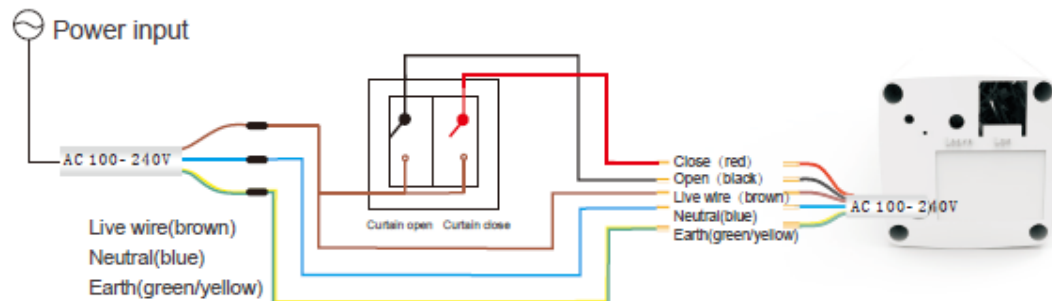2.Reset switch
Motor control mode should be mode 2.

Wiring diagram for weak current single button switch

Power input

Live wire(brown)
Neutral(blue)
Earth(green/yellow)

Hang in air
Hang in air

AC 100- 240V

AC 100- 240V

Terminal
J11-6P6C

123456

4:close
2:public

Curtain open&close

The switch type of weak current
single button switch
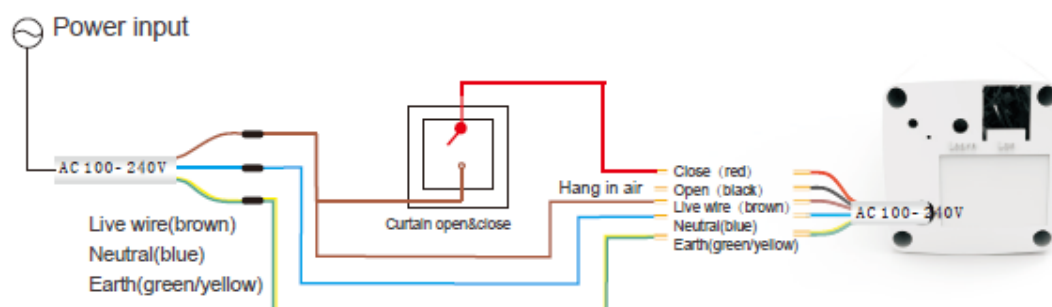
Single reset switch
Motor control mode should be mode 3.

Wiring diagram for strong current double button switch

Power input

AC 100- 240V

Live wire(brown)
Neutral(blue)
Earth(green/yellow)

Curtain open   Curtain close

Close（red)
Open（black)
Live wire（brown)
Neutral(blue)
Earth(green/yellow)

AC 100- 240V

The switch type of strong current
double button switch

1.Interlock switch
Motor control mode should be mode 1.
2.Reset switch
Motor control mode should be mode 2.

Wiring diagram for strong current single button switch

Power input

AC 100- 240V

Live wire(brown)
Neutral(blue)
Earth(green/yellow)

Curtain open&close

Hang in air

Close（red)
Open（black)
Live wire（brown)
Neutral(blue)
Earth(green/yellow)

AC 100- 240V
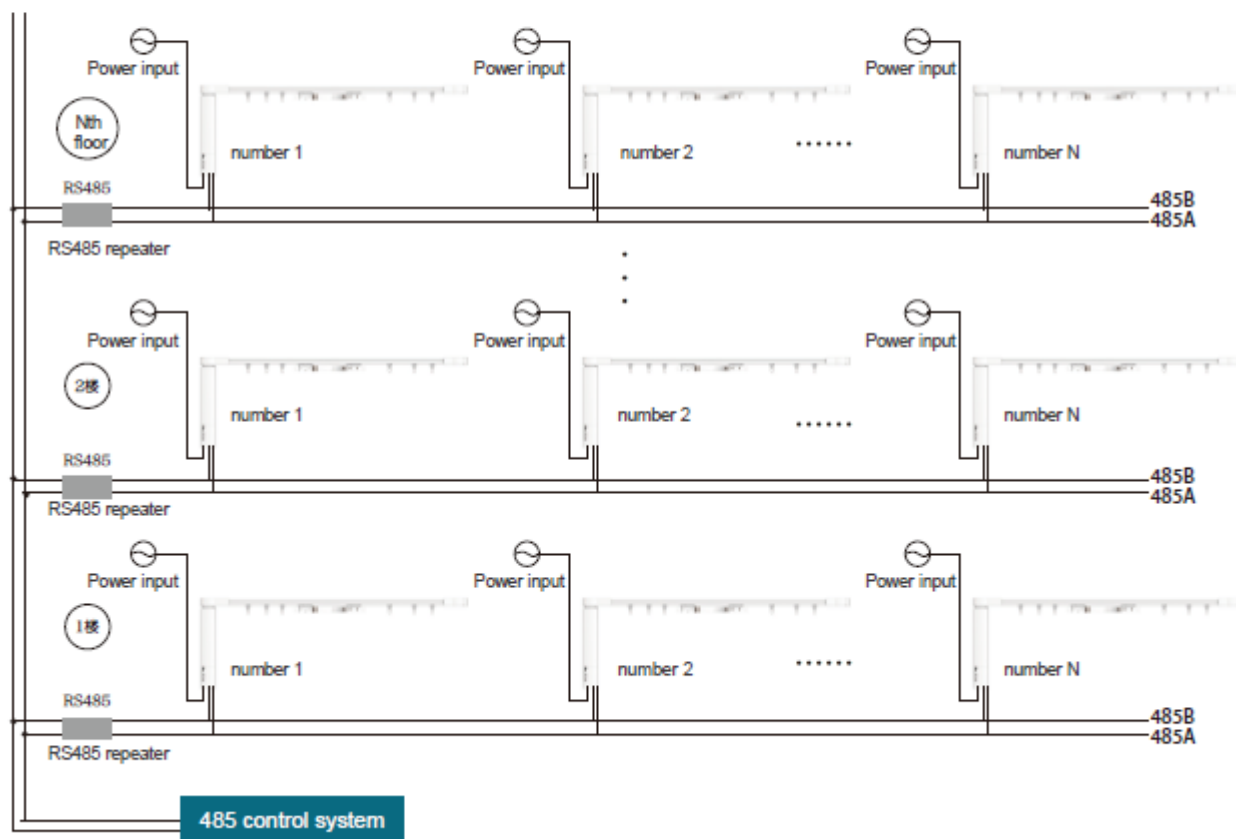
The switch type of strong current
single button switch

Single reset switch
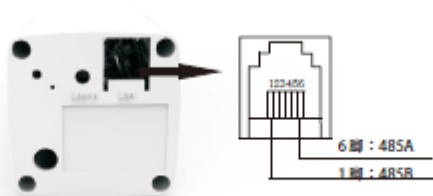Motor control mode should be mode 3.

RS-485 MOTOR SOLUTIONS

Functions

RS-485 motor possess RF control, support remote control and RS485 bus control.Applicable to smart home and hotel project etc.

Wiring diagram for RS485

Power input	Power input		Power input

Nth floor

number 1   number 2   ······   number N

RS485

485B
485A

RS485 repeater

2楼

Power input   Power input   Power input

number 1   number 2   ······   number N

RS485

485B
485A

RS485 repeater

1楼

Power input   Power input   Power input

number 1   number 2   ······   number N

RS485

485B
485A

RS485 repeater

485 control system

Wiring diagram for 485

123456

6脚 : 485A
1脚 : 485B

⚠ Notice:485A and 485B need to be connected sequentially

Other control modes

RS485 motor can be control by remotes and weak current dry contact switch, more details please check 3 wires motor solutions.

Remote control Instruction

Input voltage:2*1.5(NB.7battery)
Frequency:433.92MHZ
Power:10MW
Working temperature:-10℃~-50℃
Distance:>50m

Matched with wall mounting bracket

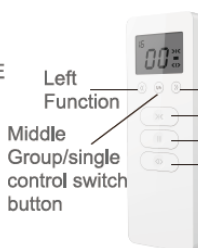**BE301**
Single channel
hand-held emitter

BE302
Double channels
hand-held emitter

BE316
16 channels LCD emitter

CLOSE
STOP
OPEN

BE301

CLOSE
STOP
OPEN

CLOSE
STOP
OPEN

BE302

Left Function

Middle
Group/single
control switch
button

Right Function
CLOSE
STOP
OPEN

BE316

SET

Hand-held emitter

Hand-held wall
mounting bracket

Matching code—BE301

Here are 2 methods for emitters to match code:shortly press MATCH button on motor or copy code
When motor is in being matched state,press the set button of a totally new emitter,the motor will
vibrate once,then matching code successfully

Shortly press MATCH button of motor

Press MATCH button
when powered on

Press SET button of a emitter
(never matched before)

The motor vibrate once ,
it means matching code finished

BE301

Matching code—BE302

Here are 2 methods for emitters to match code:shortly press MATCH button on motor or copy code
When motor is in being matched state,press the set button of a totally new emitter,the motor will
vibrate once,then matching code successfully
when chosing channels on BE302,press the stop button on the side you want firstly ,then continue.

Shortly press MATCH button of motor

Press MATCH button
when powered on

Take the right channel for
an example press the STOP
on right firstly

Press SET button of
a emitter
(never matched before)

The motor vibrate once ,
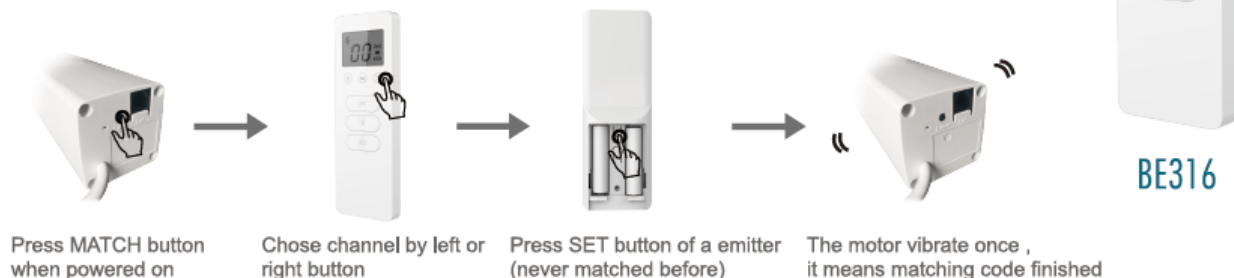it means matching code
finished

BE302

Matching code—BE316

Here are 2 methods for emitters to match code:shortly press MATCH button on motor or copy code
When motor is in being matched state,press the set button of a totally new emitter,the motor will
vibrate once,then matching code successfully

Chose 16 channels by left or right button ,every time you press left or right ,number of channel
appears on screen ,it shows the channel you want.

Shortly press MATCH button of motor

Press MATCH button
when powered on

Chose channel by left or
right button

Press SET button of a emitter
(never matched before)

The motor vibrate once ,
it means matching code finished

BE316

① Set MAX channel number

② Switch single/all channel

Long press left and right for 5s
the max number on lower right
corner flashes
NOTE:Max number is 16 channels

Press left to reduce
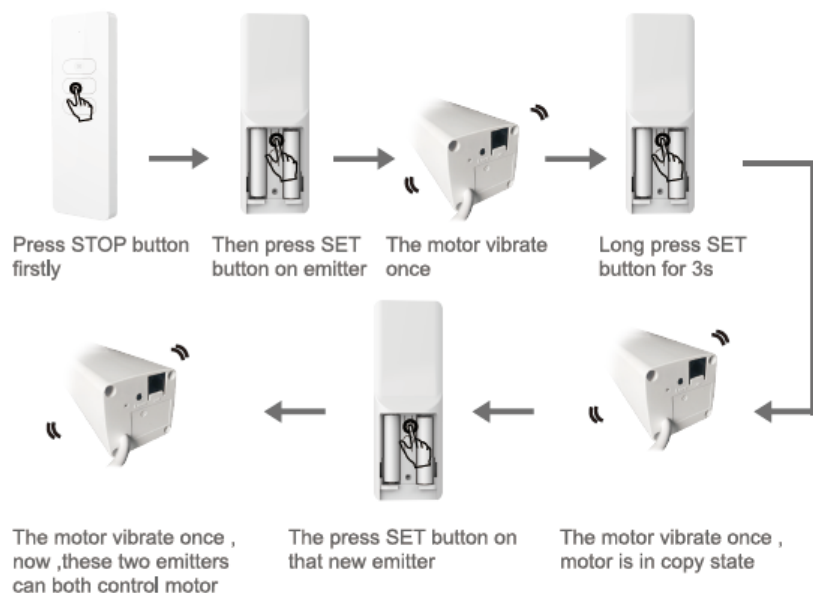
Press right to increase

Press middle S/A to confirm

Press S/A ,the number of
channel will appear on screen
 (such as:01,02),
it's single channel ,
00 stands for all channels

Copy to match code
Take BE301 for an example

Press STOP button
firstly

Then press SET
button on emitter

The motor vibrate
once

Long press SET
button for 3s

BE301   BE302   BE316

The motor vibrate once ,
now ,these two emitters
can both control motor

The press SET button on
that new emitter

The motor vibrate once ,
motor is in copy state

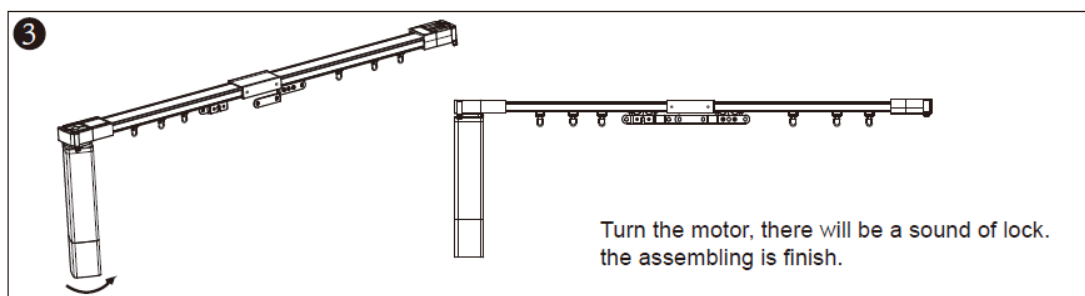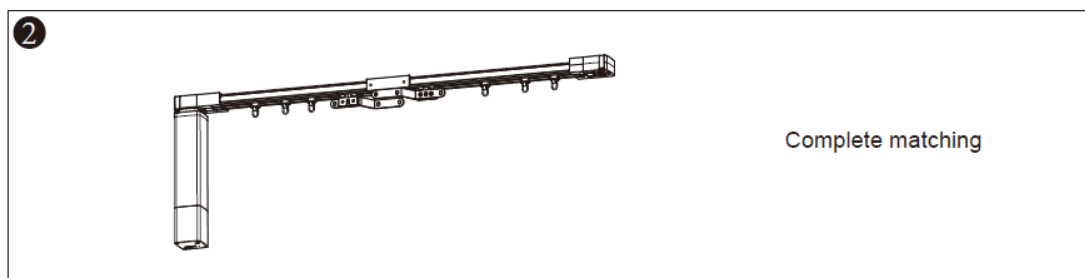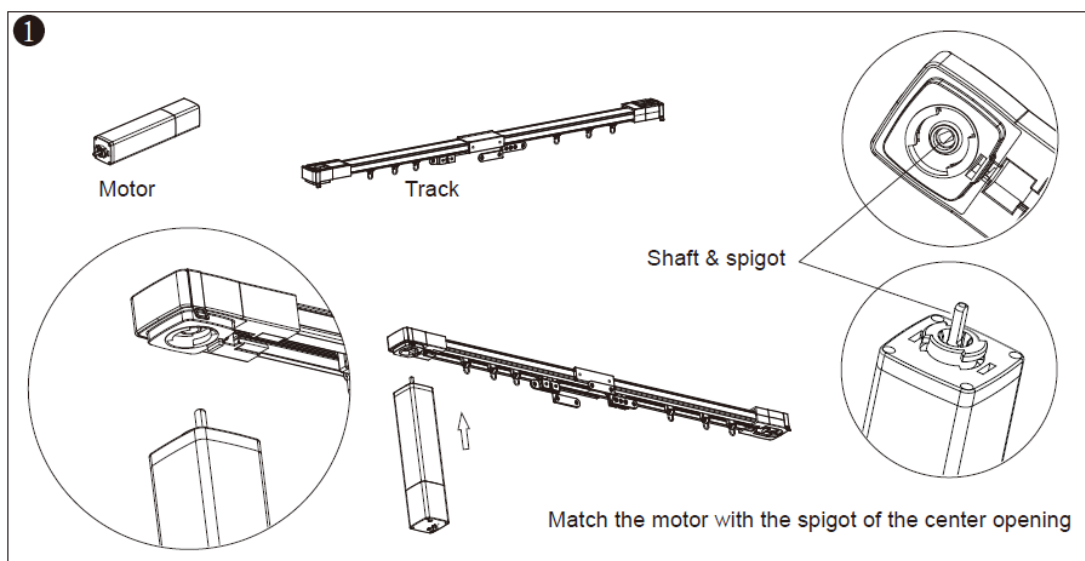**All BE series emitter can copy
each other to match code ,**

**They can not copy other brands
emitters**

Other operations please refer to motor manul
Note: 1.Do not put emitter in humid environment.
 2.Replace battery timely when it's out of power.
 3.Do not press buttons over 10s every time

Notice

1. CAUTION! Danger of electrocution. When Mounting/installating the Device directly to the power grid has to be performed with caution by a qualified electrician. Do not open the motor or attempt repairs or modifications. Opening the motor will void the warranty.

2. CAUTION! Connect the Device only in the way shown in Users Manual. Any other method could cause damage and/or injury.

3. CAUTION! Use the Device only with a power grid which comply with all applicable regulations. short circuit in the power grid may damage the Device.

4. CAUTION! Do not install the device at a place that is possible to get wet.

5. CAUTION! Do not allow children to play with the Device. Keep the Devices and Remote control away from children.

6. RECOMMENDATION! The Device may be connected to and may control electric circuits and appliances only if they comply with the respective standards and safety norms.

7. The curtain motor must be installed on the corresponding curtain track as below for normal use.

❶

Motor   Track

Shaft & spigot

Match the motor with the spigot of the center opening

❷

Complete matching

❸

Turn the motor, there will be a sound of lock. the assembling is finish.

Declaration of conformity

Hereby, HANGZHOU BINTHEN INTELLIGENCE TECHNOLOGY CO.,LTD declares that the the specified curtain motor model BCM700D-TY,BCM100DA,BCM100D-tuya zigbee,BCM100DC, BCM100D5X,BCM100D5X-2Nm,BCM100D-RS485,BCM100DB, BCM100DB-tuya zigbee,BCM300DS,BCM300D5X,BCM300D-TY, BCM300DB,BCM400D-KNX,BCM500DS-TYW, BCM500DS-TYW-2Nm,BCM500DS-TYZ,BCM500DS-Zwave, BCM500DS-HK,BCM10D-TYB,BCM10D-TYZ.BCM10D-TYW. BCM400D-Matter,BCM400D-Mudbus,BCM20D,BCM20D-TYZ, and remote controller model BE301E,BE302E,BE316,BE601,BE602,BE201B,E202,BE102,BE206,BE216L,BE306 are in compliance with **radio equipment Directive 2014/53/ EU**.

The full text of the EU declaration of conformity is available at the following internet address:

https://cdn.shopify.com/s/files/1/0236/7776/3648/files/curtain_motor_DOC_60335.pdf?v=1705047367

https://cdn.shopify.com/s/files/1/0236/7776/3648/files/curtain_motor_DOC_IEC62368.docx?v=1705047385

https://cdn.shopify.com/s/files/1/0236/7776/3648/files/remote_DOC.pdf?v=1705047385

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