# SC50 operation manual

## 1. Warning

**\*\*Warning: Read the safety instructions before you start installation. If these instructions are not followed, the Manufacturer's liability and warranty are forfeited. Manufacturer is not liable for any change in the regulations and standards introduced after the publication of this manual.**

1). Refer to professional technician to install and test following instructions.
2). Stop using this motor if any damage, especially power wire and motor cover. To avoid any kind of incidence, please get help from the local dealer, manufacturer or qualified staff to replace the damaged power wires.
3). In case there are kids around the motor, please guide and install the motor safely out of kids reach, make sure no body hurt and follow the safety regulation.
4). During daily maintenance, do not get any water into the motor especially while window/curtain cleaning.
5). Place the radio control out of kids reach.
6). Check the motor drive parts are properly working, as well as close/open functions.
7). Installing motor firmly and safely.
8). Reliable power socket with ground.
9). The power wires must have some space to be away from the curtain track, curtain runners and master carrier.
10). Select a good ventilization and dry environment for the motor to install.
11). The dry positionis good for motor in long-run, replace new batteries to the transmitter periodically to get good transmission performance (in case of shorttransmission distance,replace the batteries).
12). Cut of the power in case of any maintenance or repairing.

## 2. Technical Data

| Power supply | 100V - 240V ~ 50/60 Hz |
|---|---|
| Radio frequency | 433.92 MHz |
| Operating temperature | 0℃ to + 60 ℃ |
| Index protection rating | IP 30 |
| Safety level | Class I |

## 3. Installation

**\*\*Caution: - Instructions which must be followed by the drive and home automation professional installing the motor.**
**- Never drop, knock, drill or submerge the drive.**
**- Install a separate control point for each drive.**

### 3.1. Installation
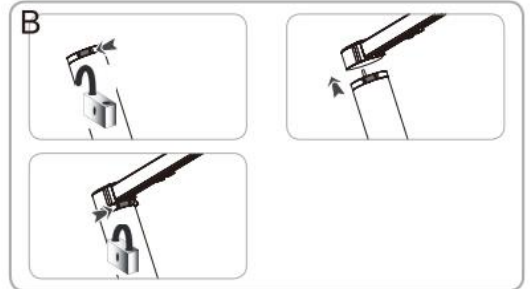#### 3.1.1. Installation of the rail ( Fig A-1, A-2)

A-2:DK30 Rail

160mm

900mm  900mm

Self-drilling Screw
微尾自攻螺絲
M4 L=12mm
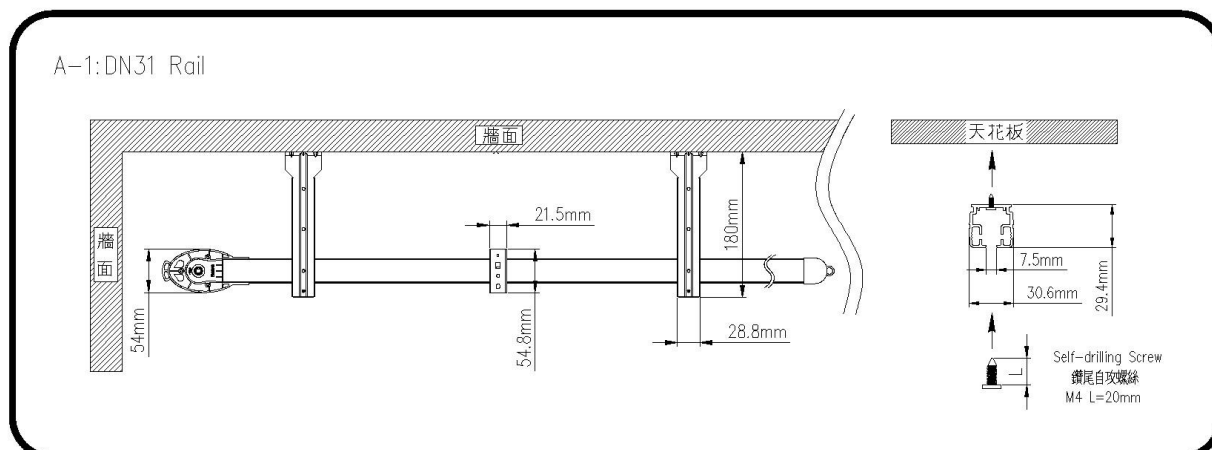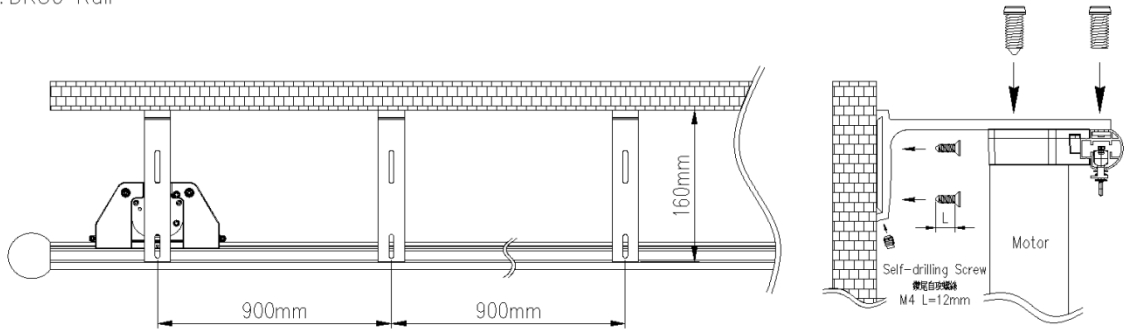
Motor

### 3.1.2. Installation of the motor (Fig B)
**1) Unlock the motor**
**2) Insert the motor shaft into the drive pulley hole.**
**3) Lock the motor.**



### 3.2. Wiring (Fig C)
**Warning: -Attach cables to prevent any contact with moving parts.**
**-Cables which pass through a metal wall must be**
**protected and isolated using a sheath or sleeve.**
**-Leave the drive power supply cable accessible: it must be**
**possible to replace it easily.**
- Switch off the power supply.
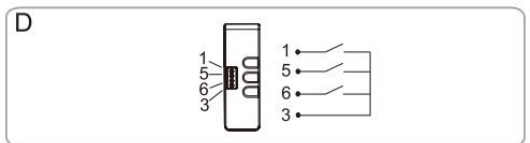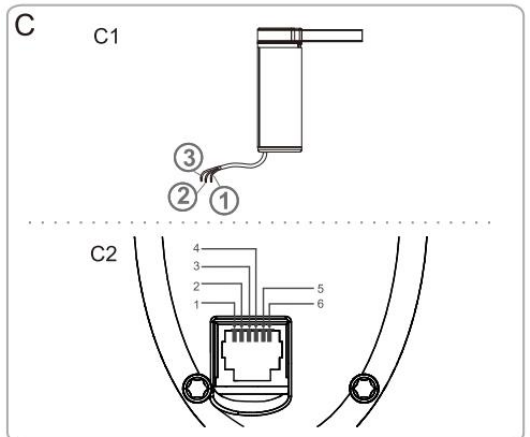- Connect the drive according to the information in the table below:
AC wiring (Fig C1)



|   | Wire | 100V~240V |
|---|------|-----------|
| 1 | Neutral | Blue |
| 2 | Live | Brown |
| 3 | Earth | Yellow/Green |

DCT wiring (Fig C2)

| 1 | CCW(OPEN)(white) | 4 | X (green) |
|---|------------------|---|-----------|
| 2 | X (black) | 5 | Stop (yellow) |
| 3 | COM (red) | 6 | CW(CLOSE) (blue) |

- Compatible controls – wiring control setting tools (Fig D)

### 3.3 Commissioning



LED
UP
STOP
DOWN
MODE
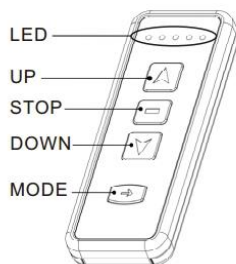
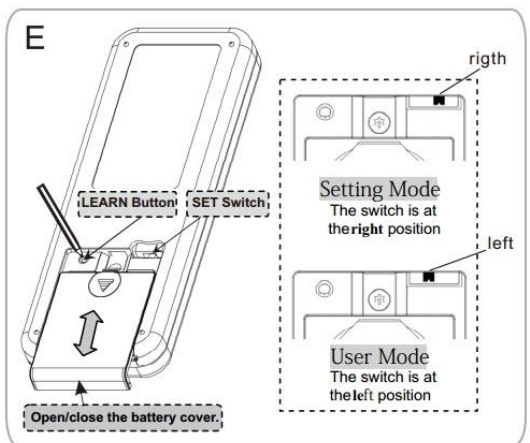### 3.3.1. Toggle the user/setting mode (Fig E)
1) User mode：Toggle the 「SET 」switch to the left on the back of the remote.
2) Setting mode：Toggle the 「SET」 switch to the right on the back of the remote.



rigth

LEARN Button  SET Switch

Setting Mode
The switch is at the **right** position

left

User Mode
The switch is at the **left** position

Open/close the battery cover.

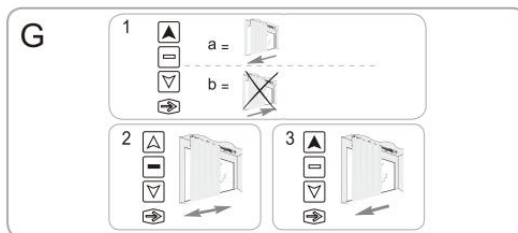### 3.3.2. Pre-programming the Radio control point (Fig F)

1) Switch on the power supply.
2) When the remote control is in <mark>setting mode</mark>, press the「UP」+「DOWN」 buttons at the same time. The motorized product moves and the radio control pointis pre-programmed in the motor.
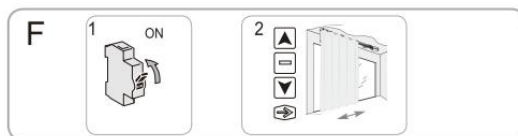


### 3.3.3. Checking/changing the direction of rotation (Fig G)

※ Change rotation direction need to be done before end limits was founded. Please follow「3.4.4 Erasing the memory of the motor」to cancel end limit if necessary.

1) When the remote control is in <mark>user mode</mark>, press the「UP」button (only make motor a short move instead of running to end point)
   a) If the motorized product opens(a), the direction of the rotation is correct.
   b) If the motorized product closes(b), the direction of the rotation is incorrect. Move onto next step.
2) When the remote control is in <mark>setting mode</mark>, press the「STOP」 3 seconds until the motorized product moves. The direction of rotation has been modified.
3) When the remote control is in <mark>user mode</mark>, press the「UP」 button to check the direction of rotation..



### 3.3.4. Setting the end limits

When the remote control is in <mark>user mode</mark>, the motorized product makes a first run to record the hard stop position at the first command「UP」or 「DOWN」.

### 3.3.5. Recording the radio control point (Fig H)

When the remote control is in <mark>setting mode</mark>, press 「STOP」+「MODE」 until the motorized product moves. The remote control address is permanently recorded.

※It is required to record radio control point at initial setting, otherwise pre-programming memory will be lost as power shut off.
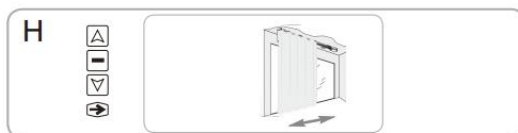


### 3.3.6. Adding/Deleting radio control points(Fig I)

**-Adding radio control points (Need additional control points after permanent address is recorded)**

**Option1:** Briefly press the「LEARN」button of paired control point when it is in <mark>setting mode</mark>, the motorized product moves. Then press the「UP」+DOWN」of the control point to be paired when it is in setting mode, the motorized product moves. Adding is finished.
**Option2:** Press the **PROG** button on the bottom side of the motorized product 2 seconds, it moves. Then press the「UP」+「DOWN」 of the control point to be paired when it is in <mark>setting mode</mark>, the motorized product moves. Adding is finished.

**-Deleting radio control points**

**Option1:** Briefly press the「LEARN」button of paired control point when it is in <mark>setting mode</mark>, the motorized product moves. Then press the「UP」+「DOWN」of the control point to be deleted when it is in setting mode, the motorized product moves. Deleting is finished.
**Option2:** Press the **PROG** button on the bottom side of the motorized product 2 seconds, it moves. Then press the「UP」+「DOWN」 of the control point to be deleted when it is in <mark>setting mode</mark>, the motorized product moves. Deleting is finished.
**Option3:** Refer to 3.4.3 to delete all the radio control points.
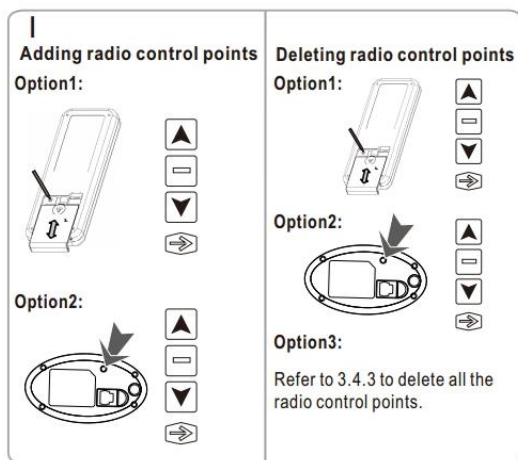


### 3.4. Tips and recommendations for installation

#### 3.4.1 Questions about the motor?

| Observations | Possible causes | Solutions |
|---|---|---|
| The motorised Productdoes | The wiring is incorrect. | Check and reconnect the power supply. |

| not operate. | The control point battery is weak. | Check whether the battery is weak and replace it if necessary. |
| | The control point is not compatible. | Check for compatibility and replace the control point if necessary. |
| | The control point used has not been programmed into the motor. | Use a programmed control point or program this control point. |

### 3.4.2. Re-setting the end limits
**-Readjusting the open end limit (Fig K)**
1) Stop the motor.
2) When the remote control is in <mark>setting mode</mark>, press the「STOP」+「UP」buttons simultaneously until the motorized product moves.
3) Press the「UP」1 second / briefly press「UP」or press 「DOWN」1second / briefly press「DOWN」to move the motorized product to the new desired position and briefly press 「STOP」to stop the motorized product.
4) To confirm the new end limit, press the「STOP」+「MODE」until the motorized product moves.
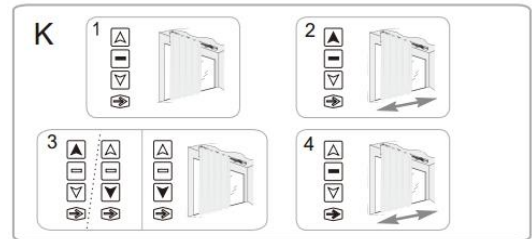
**-Readjusting the close end limit (Fig L)**
1) Stop the motor.
2) When the remote control is in <mark>setting mode</mark>, press the「STOP」+「DOWN」buttons simultaneously until the motorized product moves.
3) Press the「UP」1 second / briefly press「UP」or press「DOWN」1second / briefly press「DOWN」to move the motorized product to the new desired position and briefly press 「STOP」to stop the motorized product.
4) To confirm the new end limit, press the「STOP」+「MODE」until the motorized product moves.
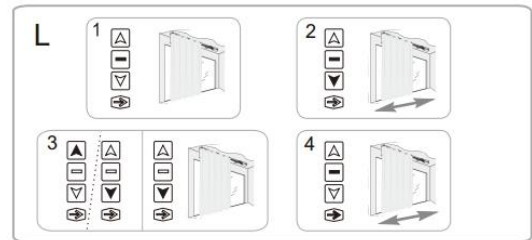




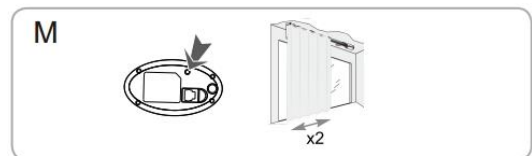### 3.4.3. Erasing the control point from the memory of the motor (Fig M)
-This reset deletes all the local control points, however the end limit settings and favorite position are retained.
-To delete all the programmed control points, use a pin to press and hold the motor PROG button at the bottom side until the product moves twice.
-All the control points are deleted.

### 3.4.4. Erasing the memory of the motor (Fig N)
-This reset deletes all the local control points, all the end limit settings and resets the motor's favorite position.
-To reset the motor, use a pin to press and hold the PROG button at the bottom side until the motorized product moves 3 times.
-All the settings are erased.
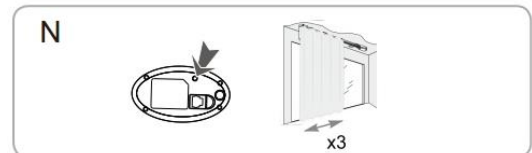




## 4. Use and maintenance

-This drive is maintenance-free
### 4.1. Open or Close curtain (Fig O)
When the remote control is in user mode, press the「UP」or「DOWN」button to fully open or close the motorized product.

### 4.2. Stop function (Fig P)
When the remote control is in user mode, briefly press「STOP」, the motorized product stops automatically.

### 4.3. Favorite position(IP)
#### 4.3.1. Set the favorite position (IP)(Fig Q)
1) When the remote control is in user mode, stop the motorized product in the desired favorite position.
2) Press「STOP」 + 「MODE」1 second until the motorized product moves：the desired favorite position (IP) has been programmed.
3) This operation must be done after the end limit was founded.
4) Favorite position (IP) shall be set 30cm away from end limit.

#### 4.3.2. Go to favorite position (IP)(Fig R)

-The motorized product is stopped at non-IP position.
-Pressed the 「STOP」 1 second: the motor product starts to move, and
 stops in the favorite position.

### 4.3.3. Delete the favorite position (IP)(Fig S)
1) When the remote control is in user mode, Press「STOP」1 second: the
   motor product starts to move and stops in the favorite position.
2) Press 「STOP」 + 「MODE」 1 second until the motorized
   product moves: the favorite position (IP) has been deleted.
3) This operation must be done after the end limit was founded.
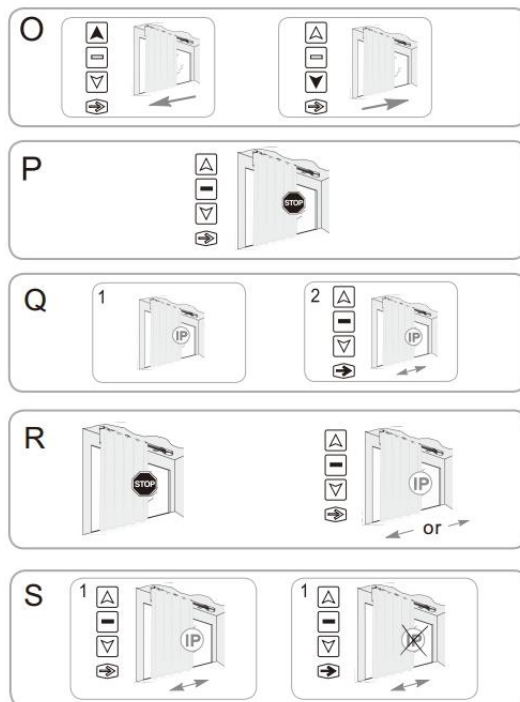


## 4.4 Tips and recommendations for use
### 4.4.1. Questions about the motor?

| Observations | Possible causes | Solutions |
|---|---|---|
| The motorised product does not operate. | The control point battery is weak. | Check whether the battery is weak and replace it if necessary. |
| | The motorisation is in thermal protection mode. | Wait for the motor to cool down. |

### 4.4.2. Replacing a lost or broken radio control point
To replace a lost or broken control point, contact a radio motorisation and home automation professional.