



USER INSTRUCTIONS

Roller Blind Motor

PRODUCT FEATURES AND RANGE OF APPLICATION

The BD roller blind motor is the premier driving force behind the roller blind, roller shutter, awning and projector screen. The product characterized by its minimal noise, large loading capacity and very easy installation, usage and concealment. They surely meet people's need in their infinite pursuit of a quality lifestyle. It can be operated for a maximum running time of 4 minutes and is not suitable for situations of excessively frequent and prolonged operation.

PRODUCT STRUCTURE

The BD roller blind motor consists of five main parts: a motor, a brake, a decelerator (with one output shaft), a built in motor and motor head.

The Remote Control Handset features 5 control buttons: UP, DOWN, LEFT, RIGHT and STOP. The UP and DOWN buttons control the blind's vertical movement. The LEFT and RIGHT buttons are for channel selection or settings. Refer to Figure 1.

The RIGHT button is for selection of channels 1 to 6, and the LEFT button is for channels 7 to 11. Refer to Figure 3.

One handset is capable of numerous operations. It can:

- Operate up to 11 motors individually; one on each channel.
- Operate up to 10 motors individually on channels 1 to 10. Channel 11 can be programmed to operate all 10 motors as a group simultaneously.
- Operate up to 11 groups of motors; each group is operated independently of each other. Each group can contain any number of motors and all motors within the group operate simultaneously.
- Each motor can be programmed onto 24 different channels.

The last transmitted channel will be retained by the handset for the next transmission.

The remote handset will operate reliably up to 30 meters away from the motor inside buildings and up to 100 meters away from the motor in open areas. A Wall holder for the handset is supplied for easy positioning at a permanent location on a wall. The battery life is approximately two years if the handset is used only a few times per day.

INSTALLATION

1. Mount brackets on wall (spade bracket to motor end & pin ramp bracket to idle end).
2. Fit blind by engaging spade bracket to motor head.
3. Engage Idle pin to Ramp bracket. Ensure spade and pin ends are fully engaged.

TRANSMISSION CODE (CHANNEL) SETTING (UP TO 24 CHANNELS ONTO A MOTOR)

All setting operations are on the remote control handset only.

Selecting the first channel for a motor

Ensure that the motor is installed within a complete system and that the system is ready to be programmed, otherwise any operation of programming should not be attempted. For power connection diagram, refer to figure 3.

1. Initially when switching power to a motor it will emit 1 long beep to indicate that power has reached the motor and one short beep to indicate readiness for the first channel number to be selected.
2. Within 15 seconds of the beep press the LEFT or RIGHT button to select the desired channel.
3. Press the STOP button whilst the channel indicator light for the selected channel is still bright. The motor will emit a long beep to confirm that it is communicating with the remote handset on the selected channel.

Once the motor is communicating, pressing the UP or DOWN button will jog the blind up or down by 1 or 2mm increments each time it is pressed, the motor will emit a short beep each time.

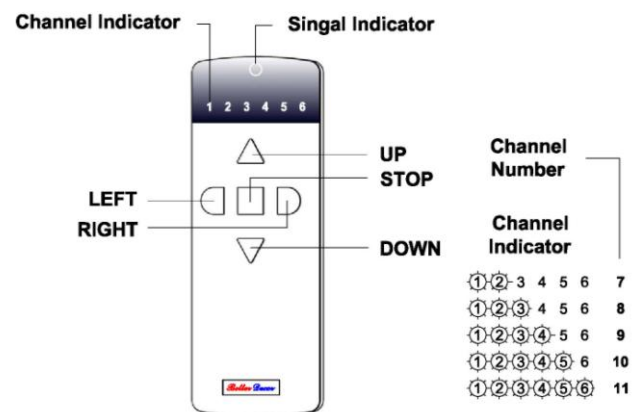


Figure 1

Programming the same motor onto a second channel

A motor that has been programmed for individual control on its own channel can also be programmed onto a second channel, along with other motors, for group control.

1. Switch off the power and switch the power on again; it will emit 2 short beeps after a long beep to indicate that the motor is programming onto a second channel (the number of beeps the motor emits will correspond to the number of channels to which the motor is communicating, e.g. if the motor is being programmed onto a third channel, then it will emit 3 short beeps after a long beep).
2. Within 15 seconds, press the LEFT or RIGHT buttons to choose a channel that has not been used for the motor (If the motor emits 5 rapid beeps, it is indicating that the channel selected has already been used for the motor. The process must then be repeated from step 1.)
3. Press the STOP button whilst the channel indicator light for the selected channel is still bright. The motor will emit a long beep to confirm that it is in communication with the handset on the second selected channel.

One motor can be programmed on up to 24 channels. If the motor has already been programmed onto all 24 channels, the motor will emit 5 rapid beeps.

DELETION

If a motor has been programmed onto any channel(s) that need to be changed, then all channels must be deleted first and the steps from 'Selecting the first channel for a motor' must be repeated.

Channels deletion only:

1. Switch off the power and switch on the power again;
2. Within 15 seconds, choose the channel corresponding to the motor;
3. Press and hold the LEFT button for 3 seconds, the motor will first emit 2 short beeps;
4. Press the UP button, a long beep is emitted to indicate that all channel settings between the motor and the remote control handset have been deleted.

Limited Setting Deletion only:

1. Switch off the power and switch on the power again;
2. Within 15 seconds, choose the channel corresponding to the motor;
3. Press and hold the LEFT button for 3 seconds, the motor will first emit 2 short beeps;
4. Press the DOWN button, a long beep is emitted to indicate that all limited settings have been deleted.

Both channel and limit settings deletion:

1. Switch off the power and switch on the power again;
2. Within 15 seconds, choose the channel corresponding to the motor;
3. Press and hold the LEFT button for 3 seconds, the motor will first emit 2 short beeps;
4. Press the STOP button, the motor will emit a long beep to indicate that all channel settings between the motor and the remote control handset and all limit settings have been deleted.

LIMIT SETTING

All setting operations are on the remote control handset only.

Check the motor direction by pressing the UP or DOWN button before limit settings.
Change the direction if needed (refer to **CHANGE THE MOTOR DIRECTION** below).

Getting into setting mode

1. Press and hold the LEFT button for more than 3 seconds. The motor will emit 2 long beeps.
2. Press and hold the RIGHT button for more than 3 seconds. The motor will emit 3 long beeps to indicate that the system is now in limit setting mode.

Upper Limit

3. Press and hold the UP button to keep rolling the blind up to the desired top limit position, if the UP button is released the blind will stop moving; press and hold the UP button again the blind will recommence moving in the given direction.
4. Press the STOP button at desired upper setting position. For finer setting increments monetarily press the UP or DOWN buttons for very small and accurate adjustments (approximately 1~2mm movement each time the UP or DOWN buttons are pressed) if needed. If the blind stopped far away from the desired position when the STOP button is pressed, wait for 5 rapid beeps to indicate that the system has exited the setting mode and then return to step 1 to re-start.
5. Press and hold the LEFT button for more than 3 seconds. The motor will emit a short beep to confirm that the upper limit setting has been completed. Note: the Left button is just for upper limit (or the UP button) setting confirmation.

Lower Limit

6. Press and hold the DOWN button to release the blind down to the desired bottom limit position, if the DOWN button is released the blind will stop moving; press and hold the DOWN button again the blind will recommence moving in the given direction.
7. Press the STOP button at desired lower position. For finer setting increments monetarily press the UP or DOWN buttons for very small and accurate adjustments (approximately 1~2mm movement each time the UP or DOWN buttons are pressed) if needed. If the blind stopped far away from the desired position when the STOP button is pressed, wait for 5 rapid beeps to indicate that the system has exited the setting mode and then return to step 1 to re-start.
8. Press and hold the RIGHT button for more than 3 seconds. The motor will emit a long beep to confirm that all limit settings have been completed and the system will enter normal operation mode. Note: the RIGHT button is just for lower limit (or the DOWN button) setting confirmation.

To reset the blind limit position, just repeat steps from 1 to 8.

Note: If there is no operation for 30 seconds whilst the system is in limit setting mode, the motor will emit 5 rapid beeps to indicate that the system will exit the setting mode.

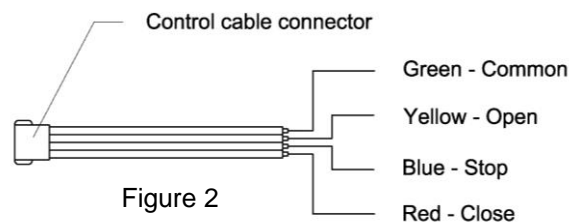
CHANGE THE MOTOR DIRECTION

This operation can be done at any time but not within 15 seconds once the motor connects to the power.

1. Press and hold the LEFT button for more than 3 seconds. The motor will emit 2 short beeps.
2. Press the UP and DOWN buttons simultaneously, the motor will emit a long beep to confirm that the direction of rotation of the motor has been changed.

C-BUS AND WALL SWITCH CONNECTION

If desired, a wall switch can be connected to the low voltage wired control socket, however, it is usually not necessary to use or connect the socket if the remote control handset is used. Also a C-Bus relay can be connected to the low voltage socket for home automation. For a C-Bus or wall switch connection reference, refer to figure 2.



SYSTEM SPECIFICATIONS

Model	BT35D-28-6
Torque	6Nm
Speed	28rpm
Voltage	240V / 50Hz
Current	600mA
Power	144W
Operating Cycle	4min
Radio Frequency	433.92MHz
Operating Distance	30 meters indoor
Motor Weight	1.5kg
Motor Size	D35mm X L585mm

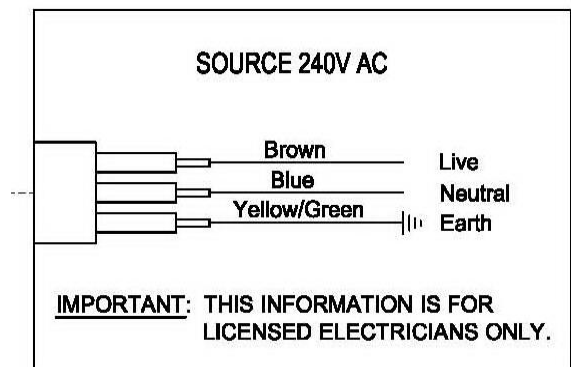


Figure 3

WARNINGS

It is important for the safety of persons to follow these instructions, as incorrect installation can lead to severe injury. Keep these instructions for future reference.

- Before installing the system, remove any unnecessary cords and disable any equipment not needed for powered operation.

- Electrical work must be installed by a licensed electrician in compliance with current safety regulations and these instructions.
- The motor must not be subject to crushing, impact, dropping or contact with any kind of liquid. Do not puncture or penetrate any part of the motor housing.
- The motor has been designed for the automation of Roman blinds and Austrian blinds in residential and commercial environments; any other use is considered improper and is not recommended.
- The supply cable attached to the system can not be replaced. If the cable is damaged, the appliance must be returned to aftersales department in order to avoid danger.
- Loading weight and the operating time must be compatible with the system specifications.
- Before carrying out any form of maintenance, switch off the power to the motor.
- Use only BD approved accessories, such as power leads, brackets and transmitters.
- Examine the installation at regular intervals. Do not use the installation until any faults have been rectified and adjustments made.
- Do not allow children to play with any controls. Keep remote controls away from children.

5 YEARS REPLACEMENT WARRANTY

The BD motor and the motor are covered by a 5 year warranty from the date of purchase. The remote control handset is covered by a 2 year warranty.

This warranty excludes any defect or failure caused by defacement, misuse, abuse, neglect, accident, misadjustment, incorrect voltage, improper installation, natural disaster (ie; fire, hail, lightning strikes, thunderstorm, flood and corrosion etc), any modification that affects the reliability or performance of the system, installation by unqualified persons or alteration of the serial number.

This warranty shall not be deemed to detract or limit the consumer's rights under any state or federal consumer legislation.