

SAFETY NOTE

1. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
2. Children shall not play with the appliance.
3. Cleaning and user maintenance shall not be made by children without supervision.
4. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
5. **WARNING:** the drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts.
6. The instructions shall state that the A-weighted emission sound pressure level of the drive is equal to or less than 70 dB(A), e.g. by writing LpA ≤ 70 dB(A).
7. The mass and the dimension of the driven part shall be compatible with the rated torque and rated operating time.
8. The type of driven part the drive is intended for.
9. **WARNING:** Important safety instructions. It is important for the safety of persons to follow these instructions. Save these instructions.
10. Do not allow children to play with fixed controls. Keep remote controls away from children.
11. Frequently examine the installation for imbalance and signs of wear or damage to cables and springs. Do not use if repair or adjustment is necessary.
12. Watch the moving shutter and keep people away until the shutter is completely closed.
13. **WARNING:** Important safety instructions. Follow all instructions, since incorrect installation can lead to severe injury.
14. Before installing the drive, remove any unnecessary cords and disable any equipment not needed for powered operation.



Features

- Built-in Receiver
- Limit Fine Adjustment
- Switch Direction
- Reset to Factory Mode
- Electronic Limit
- Jog & Tilt
- Switch Control
- Program Button
- Precise Limit Setting
- Preferred Stop Position
- Sensitive Stall Detection
- Radio Lock

Fields of Application



The motor is suitable for motorization of roller blinds.

Specifications

Working Temperature: -10℃ ~ +65℃	Radio Frequency: 433.925MHz
Rated Voltage: 230V/50Hz, 220V/60Hz, 120V/60Hz	Thermal Protection Time: > 4 minutes

Following data for reference

Model	Rated Torque (N.m)	Rated Speed (rpm)	Rated Current (A)	Rated Voltage (V)
DM35ECA/S-6/33	6	33	0.85	120
DM35ECA/S-10/21	10	21	1	120
DM35ECA/S-6/33	6	33	0.7	220
DM35ECA/S-10/21	10	21	0.7	220
DM35ECA/S-6/28	6	28	0.67	230
DM35ECA/S-10/17	10	17	0.67	230
DM45ECA/S-10/19	10	19	1.1	120
DM45ECA/S-20/19	20	19	1.5	120
DM45ECA/S-30/13	30	13	1.6	120
DM45ECA/S-40/13	40	13	1.6	120
DM45ECA/S-50/13	50	13	2.4	120
DM45ECA/S-10/19	10	19	0.61	220
DM45ECA/S-20/19	20	19	0.8	220
DM45ECA/S-30/18	30	18	0.93	220
DM45ECA/S-40/13	40	13	0.99	220
DM45ECA/S-50/13	50	13	1.03	220
DM45ECA/S-10/15	10	15	0.48	230
DM45ECA/S-10/26	10	26	0.69	230
DM45ECA/S-20/15	20	15	0.69	230
DM45ECA/S-20/26	20	26	0.9	230
DM45ECA/S-30/15	30	15	0.87	230
DM45ECA/S-40/15	40	15	0.99	230
DM45ECA/S-50/12	50	12	0.99	230

* For reference only.

Attention

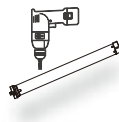
Never drop, knock, drill or submerge the motor. Keep the power cable in right position as following. Important safety instructions to be read before installation. Incorrect installation can lead to serious injury and will void manufacturer's liability and warranty.



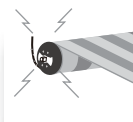
×



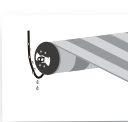
×



×



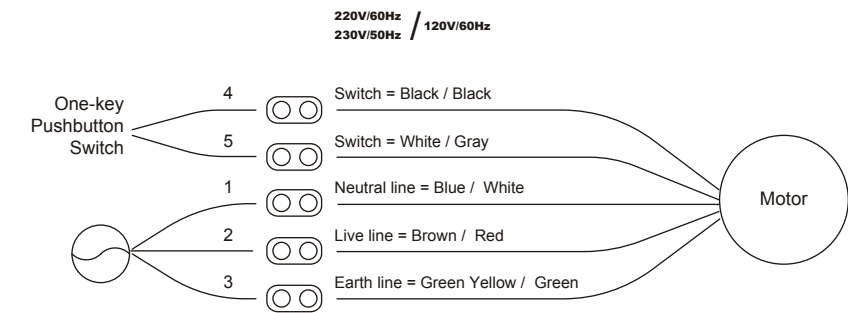
×



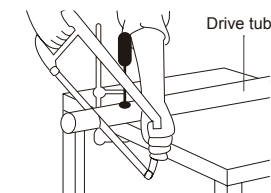
✓

Wiring

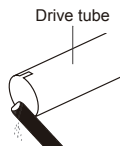
Five wires: 220V/60Hz; 230V/50Hz; 120V/60Hz



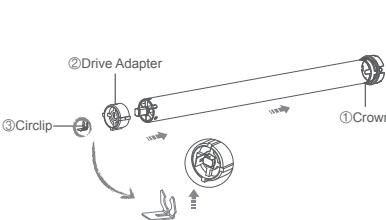
Motor Installation



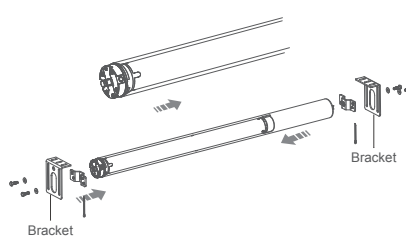
Step 1 Cut drive tube to required length.



Step 2 Ensure tube edge is clean and burr-free.



Step 3 Mount correct crown & drive adapter on the motor. Make sure drive adapter fits firmly and crown rotates freely.



Step 4 Align the notches on the crown and drive adapter with the drive tube, slide and fit the motor into drive tube. Mount idler and bracket on both ends.

Caution

1. Do not expose motor to humid, damp or extreme temperature conditions.
2. Do not drill into motor.
3. Do not cut the antenna and keep it clear from metal objects.
4. Do not allow children to play with this device.
5. If power cable or connector is damaged, do not use.
6. Ensure correct crown and drive adaptor are used.
7. Ensure power cable and aerial is clear and protected from moving parts.
8. Cable routed through walls shall be properly isolated.
9. Motor is to be mounted in horizontal position only.
10. Before installation, remove unnecessary cords and disable equipment not needed for powered operation.
11. Installation and programming to be performed by a qualified professional, use or modification outside the scope of this instruction may void warranty.



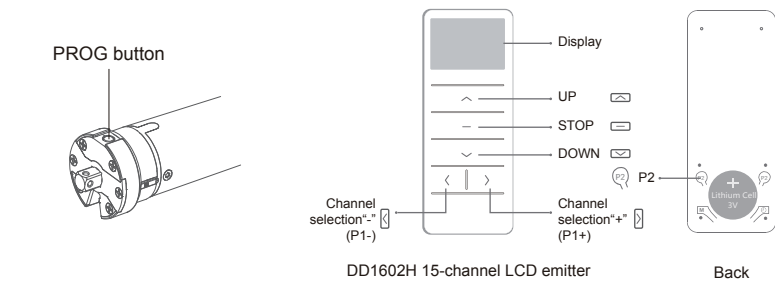
Important Safety Instructions To Be Read Prior To Operation.

Setting Notice

Please read following points of attention carefully before setting.

1. AC connection mode reference wiring diagram
Customer please spare wiring, isolation, use accessories package bobbin (or other means).
2. Operating:
 - ① The valid interval of the emitter button is 6s, the emitter will quit the set after 6s.
 - ② The motor will run or "Di" for hint, please do the next step after the hint.
3. Set limit position:
 - ① After the upper/lower limit setting, and the upper/lower limit position can't be at the same position.
 - ② After limit setting, with power off and memory function.
 - ③ Limit delete will clear all limit memory.
 - ④ It will exit limit setting when program there is no operation for 2 minutes.
4. If the emitter lost, please setting up again with new emitter.
5. One motor can store maximum 10 channels; after fully stored, if pair new channels, only the last one will be covered circularly.

Button Instructions



Functions of PROG button

1. Cycle Operation: Press PROG button once and every press the motor will run upward → stop → downward → stop circularly.
2. Pairing or Pair Additional Emitter: Press PROG button for 2S, motor jog once, release button and make a long noise, motor is ready for pairing or pair / unpair additional emitter.
3. Radio Lock: Press and hold PROG button for 6S, motor jog once, release button and beep twice, the motor enters radio lock status, the motor won't receive any signal; press PROG button once or the motor is powered off to disable Radio Lock.
4. Switch Direction: Press and hold PROG button for 10S, motor jog once, release button and beep 3 times, the running direction of the motor has been changed.
5. Reset to Factory Mode: Press and hold PROG button for 14S, motor jog once, release button and beep 4 times, the motor has been reset to factory mode.



Essential Settings

Step 1 to 3 must be completed to ensure proper operation.

1 Pairing



STOP

Press PROG button for 2S (1 jog), release button and make a long noise, or repower, within 7S, press STOP for 2S (2 jogs and 3 beeps), the motor has been paired successfully.

*No limit conditions for operation is pairing; In a limit state of operation pairing are added emitter.

2 Switch Rotating Direction (Optional)

Press UP and motor runs downwards, try below to switch direction.



UP DOWN

Press and hold UP and DOWN buttons simultaneously for 2S, motor jog once, the direction has been switched successfully.

*The motor needs to be in the reversing operation without limit.

3 Setting Upper and Bottom Limits

1 Set upper limit



Press UP for 2S, operate the motor to desired upper position, press and hold UP and STOP buttons simultaneously for 2S (2 jogs and 3 beeps), upper limit is set.

2 Set lower limit

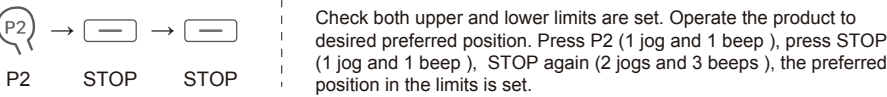


Press DOWN for 2S,operate the motor to desired lower position, press and hold DOWN and STOP buttons simultaneously for 2S (2 jogs and 3 beeps), lower limit is set.

*In a limit, to set the upper and lower limit position (can be set the upper limit first, and then set the lower limit; Can also be set the lower limit first, then set the upper limit). In the no-limit state, the motor jog runs; Press and hold UP or DOWN for 2S to run continuously, after the limit is set, the motor runs continuously.

4 Add A Preferred Position

1 Set preferred position(Within the limits)



*Press STOP for 2S,the motor moves to preferred position automatically.

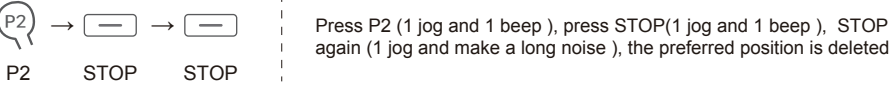
2 Set preferred position(Outside the limits)



Check both upper and lower limits are set. Press P2 (1 jog and 1 beep), DOWN (1 jog and 1 beep), STOP (2 jogs and 3 beeps), then press UP or DWON, operate the product to desired preferred position, press P2 (1 jog and 1 beep), STOP (1 jog and 1 beep), STOP again (2 jogs and 3 beeps), preferred position setting outside the limits is ok

*If there is already a preferred position or a preferred position outside the limits, there will be no response, the preferred position should be deleted first.

3 Remove preferred position



*If the preferred position is still outside the limit after the fine adjustment the limit, it will not be deleted.

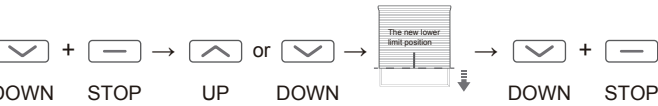
5 Adjust Limits

1 Adjusting the upper limit position



Press and hold UP and STOP buttons simultaneously for 5S (1 jog and make a long noise), operate the product to desired new upper limit position, press and hold UP and STOP buttons simultaneously for 2S (2 jogs and 3 beeps), the new upper limit is programmed successfully.

2 Adjusting the lower limit position



Press and hold DOWN and STOP buttons simultaneously for 5S (1 jog and make a long noise), operate the product to desired new lower limit position, press and hold DOWN and STOP buttons simultaneously for 2S (2 jogs and 3 beeps), the new lower limit is programmed successfully.

*This operation should be carried out when there is a limit; Enter Trim Mode for 2 minutes,If not confirm the new limit position,exit fine tuning mode and restore the original limit position.

6 Activate / Deactivate Jog / Tilt Mode

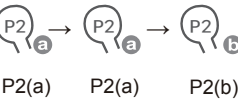


Press and hold UP and DOWN buttons simultaneously for 5S (1 jog), press STOP (1 jog and make a long noise), Jog / tilt mode is activated. If motor 2 jogs and beep 3 times, Jog / tilt mode is deactivate.

*Press UP or DOWN for more than 2S, the motor continues run; It must be done after setting the upper limit and the lower limit; Close the jog & tilt function, the motor running continuously.

7 Pair / Unpair Additional Emitter

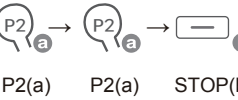
Method one



Press P2 (1 jog and 1 beep) and P2 (1 jog and 1 beep) on existing emitter, press P2 on new emitter to add (2 jogs and 3 beeps), new emitter is paired to the motor.

• Repeat same procedure will unpair additional emitter.

Method two



Press P2 (1 jog and 1 beep) and P2 (1 jog and 1 beep) on existing emitter, press STOP on new emitter for 2S to add (2 jogs and 3 beeps), new emitter is paired to the motor.

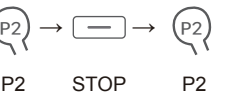
Method three



Press PROG button for 2S (1 jog), release button and make a long noise, press STOP on new emitter for 2S to add (2 jogs and 3 beeps), new emitter is paired to the motor.

*(a) as existing emitter, (b) as new emitter to pair/unpair; After the emitter is added successfully, the limit is not deleted; This operation should be carried out when there is a limit

8 Remove All Emitters



Press P2 (1 jog and 1 beep), STOP (1 jog and 1 beep), and P2 (2 jogs and 3 beeps), all settings are deleted.

*After deleting all emitters, keep the original limit information.

9 Deleting All Limits



Press P2 (1 jog and 1 beep), DOWN (1 jog and 1 beep), and P2 (2 jogs and 3 beeps), all limits are removed.

*This operation is deleted along with the preferred position.

10 One-key Pushbutton Switch Control

Press the switch button once, motor will run upward → stop → downward → stop circularly

*This operation should be carried out when there is a limit; In jog-move mode, short press the switch motor to run, release to stop

Quick Index

	Settings	Steps
1	Pairing	Stop (hold down 2s)
2	Switch Rotating Direction	Up + Down (hold down 2s)
3	Upper and Lower Limits Setting	Set upper limit Up (hold down 2s) → Up + Stop (hold down 2s)
	Set lower limit	Down (hold down 2s) → Down + Stop (hold down 2s)
4	Add / Remove Preferred Position	Set preferred position(Within the limits) P2 → Stop → Stop
	Set preferred position(Outside the limits)	P2 → Down → Stop → Up or Down → P2 → Stop → Stop
	Remove preferred position	P2 → Stop → Stop
5	Adjust Limits	Adjusting the upper limit Up + Stop (hold down 5s) → Up or Down → Up + Stop (hold down 2s)
	Adjusting the lower limit	Down + Stop (hold down 5s) → Up or Down → Down + Stop (hold down 2s)
6	Activate / Deactivate Jog / Tilt Mode	Up + Down (hold down 5s) → Stop
7	Pair / Unpair Additional Emitter	P2(a) → P2 (a) → P2(b)
		P2(a) → P2 (a) → Stop (b) (hold down 2s)
		Stop (b) (hold down 2s)
8	Remove All Emitters	P2 → Stop → P2
9	Deleting All Limits	P2 → Down → P2
10	One-key Pushbutton Switch Control	Press the switch once

Troubleshooting

Issues	Possible causes	Solution
Motor is not responding	Power Failure Or Incorrect Connection	Double check power and cable connections, follow wiring instructions.
	Battery in emitter is low	Replace battery
	Radio interference / shielding	Check antenna on motor is intact and exposed. Check for possible source of radio interference.
	Out of radio control range	Try control within closer range
Cannot program a single Motor (multiple motors respond)	Multiple motors are paired to the same channel.	Always reserve an individual correctly (refer to motor functions)
		SYSTEM BEST PRACTICE - Provide an extra 15 channel controller in your multi motor projects, that provides individual control for each motor for programming purposes
The motor does not raise or lower the blinds or shutters, starts too slowly or make loud noise.	Connections are incorrect.	Check connections
	Incorrect installation or overload	Check installation or overload
The motor stops during the going up or going down.	Down limit is reached	Set new down limit
	Running time exceeds 4 min	Let the motor cool for about 20 min

DM35(45)ECA/S
Instruction | A-02

