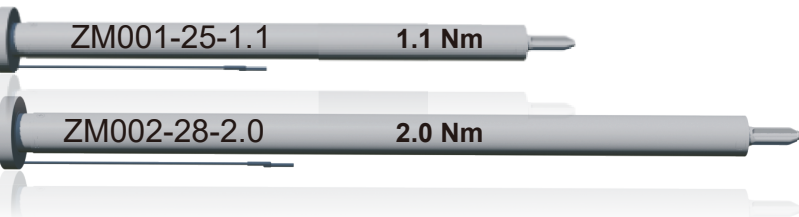


INSTRUCTIONS

ZM001-25-1.1 & ZM002-28-2.0 25mm Li-ion Bi-Directional Motor 1.1Nm & 28mm Li-ion Bi-Directional Motor 2Nm



WARNING: Important safety instructions to be read prior to operating shades

1. It is important for the safety of persons to follow these instructions. Incorrect installation can lead to severe injury. Save these instructions.

2. 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.

3. Watch the moving shade and keep people away until the shade is completely closed.

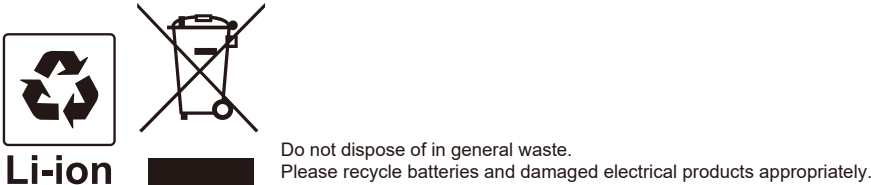
4. Children shall not play with the appliance.

5. Do not allow children to play with fixed controls. Keep remote controls away from children.

6. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

7. Disconnect the appliance from its power source during cleaning, maintenance and replacing parts.

8. 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.

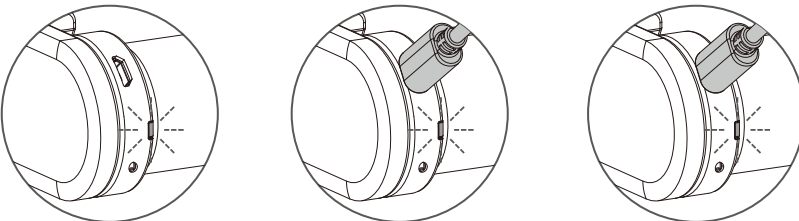


Specifications

Rated Torque (Nm)	1.1/2.0	Degree of Protection (IP)	IP20
Speed(rpm)	28-24-20	Maximum Limit Turn (turn)	∞
Radio Frequency (MHz)	433.92	Max.Single Running Time(min)	6
Li-ion Battery (mAh)	2600	Working Temperature (°C)	-10 ~ 60
Rated Power(W)	10/15	Charging Voltage (v)	5V type-c

Charging Instructions

- Max power input for recharging: 5V 2A.
- Before first use please charge motor for 6 hours. Using 5V charger (most phones charger is 5V).
- During operation,when the motor starts,if the buzzer beeps 10 times,indicates a low-voltage alarm and needs to be charged.
- During operation if the battery voltage is too low, motor will stop running and need to be charged.



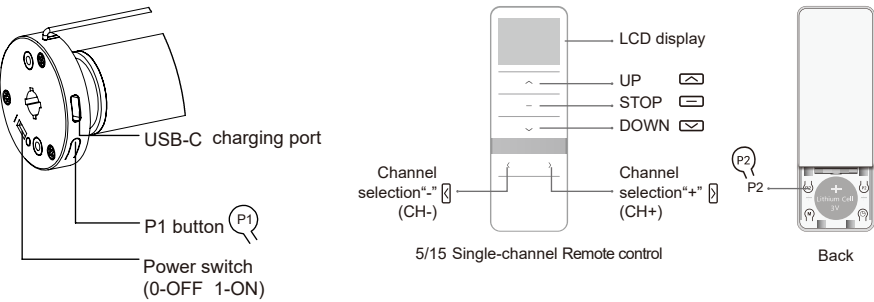
Caution

- Do not expose motor to humid or extreme temperature conditions.
- Do not drill into motor.
- Do not cut the antenna and keep it clear from metal objects.
- Ensure correct crown and drive adaptor are used.
- Ensure power cable and aerial is clear and protected from moving parts.
- Motor is to be mounted in horizontal position only.
- Before installation, remove unnecessary cords and disable equipment not needed for powered operation.
- Installation and programming to be performed by a qualified professional, use or modification outside the scope of this instruction may void warranty.
- Before installing the appliance, remove any unnecessary cords and disable any equipment not needed for powered operation.
- The load applied to the appliance shall be compatible with the rated torque and rated operating time.

Notice Before Setting

- Please read following notice carefully before setting.
- Don't operate motor when a low voltage alarm is triggered.
 - Operating:
 - The remote control will quit the setting if no operation within 10s.
 - The motor will jog or beep as reminder, please do the next step after the reminder.
 - Set the limit position:
 - After the upper / lower limit setting, the upper / lower position can't be reset at the same position.
 - After the limit setting, the limits are still saved in the motor memory even if the motor is power off.
 - Limit delete will clear all limit memory.
 - It will exit limit setting if no operation within 2 minutes.
 - Paring a new remote control won't change the existing limits.
 - 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 P1 button**
- Cycle Operation:** Press P1 button once and every press the motor will run upward → stop → downward circularly.
 - Pairing or Pair Additional remote control:** Press P1 button for 2, motor jog once, release button and make a long beep, motor is ready for pairing or pair additional remote control.
 - Sleep Mode:** Press and hold P1 button for 6s, the motor will jog twice, release button and beep twice, the motor enters sleep mode, the motor won't receive any signal; press P1 button can awake motor.
 - Switch Direction:** Press and hold P1 button for 10s, the motor will jog 3 times, release button and beep 3 times, the running direction of the motor has been changed.
 - Reset to Factory Mode:** Press and hold P1 button for 14s, the motor will jog 4 times, release button and beep 4 times, the motor has been reset to factory mode.At this point the motor will go into deep sleep. After entering deep sleep, the motor can't be controlled. At this time, you need to press P1 button for 2s and then the motor turns to prompt to exit deep sleep.

Factory mode

- Essential Settings**
The steps in factory mode must be completed to ensure proper operation.

1 Pairing

- P1 → STOP
- Press P1 button for 2s (1 jog), release button and the motor will make a long beep, Or turn the DIP switch to "0" and then to "1" (1 jog and make a long beep), repower the motor, within 10s, press STOP for 2s (2 jogs and 3 beeps), the motor and remote control have been paired successfully.

* If within 10S, the motor doesn't receive STOP signal from any control, it will exit the pairing mode automatically. Re-power on after power off, if the motor already has a paired remote control, there won't be any rotation prompt, and the pairing mode is not entered.

2 Check Rotating Direction

Press UP, if the motor runs downward, 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 operation is only valid when there is no limits. If the motor has already set the upper and lower limit, then you can only switch direction by press P1 button for 10s.(refer to Function of P1 button #4, above)

3 Upper and Lower Limits Setting

1 Set upper limit

- UP → UP + STOP

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

* If exit the limits setting status before you finish the limit setting, then the motor will take the previous limits if has; After the limits have been set successfully, the motor enters the User mode.

2 Set lower limit

- DOWN → DOWN + STOP

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

User mode

1 Set up Preferred Position

1 Set preferred position

- P2 → STOP → STOP

Check and confirm both upper and lower limits are set. Bring the shade to desired preferred position. Press P2 (1 jog and 1beep),press STOP(1 jog and 1 beep), STOP again(2 jogs and 3 beep),the preferred position is a set.

* Press STOP for 2s,the shade runs to preferred position automatically.

2 Remove preferred position

- P2 → STOP → STOP

Press P2 (1 jog and 1 beep), press STOP (1 jog and 1 beep), STOP again(1 jog and make a long noise), the preferred position is deleted.

2 Jog Mode & Running Mode Switch

- UP + DOWN → STOP

Press and hold UP and DOWN buttons simultaneously for 5s (1 jog), press STOP (1 jog and make a long beep), switch to jog mode, If motor jog twice and beep 3 times, switch to running mode.

* When in jog mode, press UP or DOWN once, the motor will be jog running, if press more than 2s, the motor will be continuously running.

3 Adjust Limits

1 Adjusting the upper limit

- UP + STOP → UP or DOWN → UP + STOP

Press and hold UP and STOP buttons for 5s (1 jog and make a long beep), operate the shade to desired new lower limit position, press and hold DOWN and STOP buttons for 2s(2 jogs and 3 beeps), the new upper limit is set successfully.

2 Adjusting the lower limit

- DOWN + STOP → DOWN or UP → DOWN + STOP

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

* When entering the limits set adjustment mode, the original limits will not be deleted.If there is no button operation within 2 minutes,the motor will jog once and automatically exit the adjustment mode. Press and hold P1 for more than 2s can exit adjustment mode.

4 Pair / Unpair Remote Control

Method one - copy from existing remote control

- P2(a) → P2(a) → P2(b)

Press P2 (1 jog and 1 beep) and P2 (1 jog and 1 beep) on existing Remote Control, press P2 on new remote control to add (2 jogs and beeps), new remote control is paired to the motor.

* Repeat same procedure will unpair the remote control.

Method two - copy from existing remote control

- P2(a) → P2(a) → STOP(b)

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

Method three - pair directly with motor

- P1 → STOP(b)

Press P1 button for 2s (1 jog), release button and make a long beep, press STOP on new remote control for 2s (2 jogs and 3 beep) new remote control is paired to the motor.

* Repeat same procedure will unpair a remote control.

* (a) as existing remote control,(b) as new remote control to pair/unpair; Adding the remote control should be carried out when there is a limits; All the setting of the motor will be kept after adding the new remote control.

5 Speed Adjustment / Setting Motor Slow Stop Operation Mode

1 Acceleration setting / Activate the motor slow stop operation mode

- P2 → UP → UP
- Press P2 (1 jog and 1 beep), press UP (1 jog and 1 beep), UP again (2 jogs and 1 beep), the motor running speed is accelerated. When the motor is at the Max. speed, the motor jogs once and make a long noise after the last operation, and the motor slow stop operation mode is activated.

2 Deceleration setting / Deactivate the motor slow stop operation mode

- P2 → DOWN → DOWN
- Press P2 (1 jog and 1 beep), press DOWN (1 jog and 1 beep), DOWN again (2 jogs and 1 beep), the motor running speed is decelerated. When the motor is at the Min. speed, the motor jogs once and beep once after the last operation, and the motor slow stop operation mode is deactivated.

* The motor has 3 speed levels, 28rpm; 24rpm; 20rpm. the factory default is 28rpm, slow stop mode (only works after the limits setting).

Quick Index

Settings	Steps
1 Pairing	P1 (hold 2s) → Stop (hold 2s)
2 Switch Rotating Direction	Up + Down (hold 2s)
3 Upper and Lower Limits Setting	1 Set upper limit 2 Set lower limit Up (hold 2s) → Up + Stop (hold 2s) Down (hold 2s) → Down + Stop (hold 2s)
4 Add / Remove Preferred Position	P2 → Stop → Stop
5 Jog Mode & Running Mode Switch	Up + Down (hold 5s) → Stop
6 Adjust Limits	1 Adjusting the upper limit 2 Adjusting the lower limit Up + Stop (hold 5s) → Up or Down → Up + Stop (hold 2s) Down + Stop (hold 5s) → Up or Down → Down + Stop (hold 2s)
7 Pair / Unpair Additional remote control	1 from existing remote control 2 from existing remote control 3 from motor P2(a) → P2 (a) → P2(b) P2(a) → P2 (a) → Stop (b) (hold 2s) P1 (hold 2s) → Stop (b) (hold 2s)
8 Speed adjustment/ Setting Motor Slow Stop Operation Mode	1 Acceleration setting / Activate the motor slow stop operation mode 2 Deceleration setting / Deactivate the motor slow stop operation mode P2 → Up → Up P2 → Down → Down

Troubleshooting

Issues	Possible causes	Solution
The motor has no response	Battery in motor is depleted	Recharge with compatible AC adaptor
	Power Failure Or Incorrect Connection	Double check power and cable connections, follow wiring instructions.
	emitter battery is low capacity	Replace battery
	Radio interference / shielding	Check antenna on motor is intact and exposed. Check for possible source of radio interference.
The remote control can't control single motor	Out of radio control range	Try control within closer range
	Multiple motors are paired to the same channel.	Pair single motor with remote control correctly
The motor doesn't run or starts too slowly or make loud noise	Try to use multi-channel emitters to control multi-motor projects, ensure each channel to control one single motor.	
	Connections are incorrect.	Check connections
The motor stops during the up and down running	Installation is improper or overload	Check installation or overload
	The motor has reached the lower limit	Adjust the new lower limit
	The running time more than 6min	Consult the sales for more information

Attention

- When the emitter is paired with the motor or when the remote control is used to control the motor, the remote control will send signals to the motor.
- Once the motor and Hub are paired, whenever the motor is in operation and the remote control or Hub is used to stop the motor, the motor will send a signal to the Hub.

