

TOSO

Motorized Roller Blind

ATF35-RB

No. N – 110026

Instruction Manual

Thank you for purchasing TOSO products. To ensure safe use of this product, please read the following thoroughly and keep this manual stored.

Guide for Distributors and Installation Contractors

This manual contains information for a user to safely operate this product.
Please provide this manual to a customer.

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Caution

* This manual contains cautions and instructions for safe use of the product. Please read it carefully before using to ensure appropriate use.

● This document illustrates the dangers of using this product without taking necessary precautions. Please refer to the symbols below for different types of safety points.



Warning Illustrates that if this product is misused, there are dangers of serious injuries or possible fatal accidents.



Caution Illustrates that if this product is misused, there are dangers of casualties or possible physical damage of the product.

● This document illustrates safety points to be followed using the symbols below.

Illustrates specific actions which are prohibited.

Illustrates specific guidelines which must be followed.

■ Precautions upon installing the product (Please read before installation.)



Warning

- ❗ Check the foundation base and strength of the material before installing this product. If not installed properly to the foundation base, there are dangers of it falling.
- ❗ Install this product as instructed with the necessary quantity of brackets. Otherwise the product may fall.



Caution

- ⊘ This product is intended for indoor use. Please do not use it for outdoor purposes.
- ⊘ Locations subject to high temperatures and high humidity, or areas where water may leak, should be avoided.
- ❗ Make sure to install this product horizontally.



■ Safety in Use (Please read thoroughly)



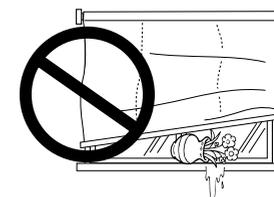
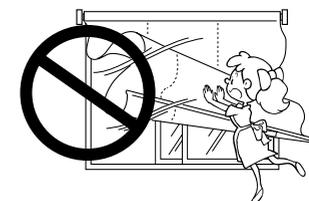
Warning

- ⊘ Please do not hang from or pull on this product. This may damage the product or cause it to fall down.
- ⊘ This product requires an AC 220–230V power source. Do not use any other power source.
- ⊘ When not using the product for a long period, unplug the power plug.
- ⊘ Avoid any actions that may damage the power cord or plug. Using damaged components may result in electric shock, short circuits, or fire.
- ⊘ Clean power plugs at regular intervals. Plugs exposed to moisture or to excessive dust may lead to insulation failures or cause fires.
- ⊘ Do not touch the product with a wet hand as there are danger of electrical shock.



Caution

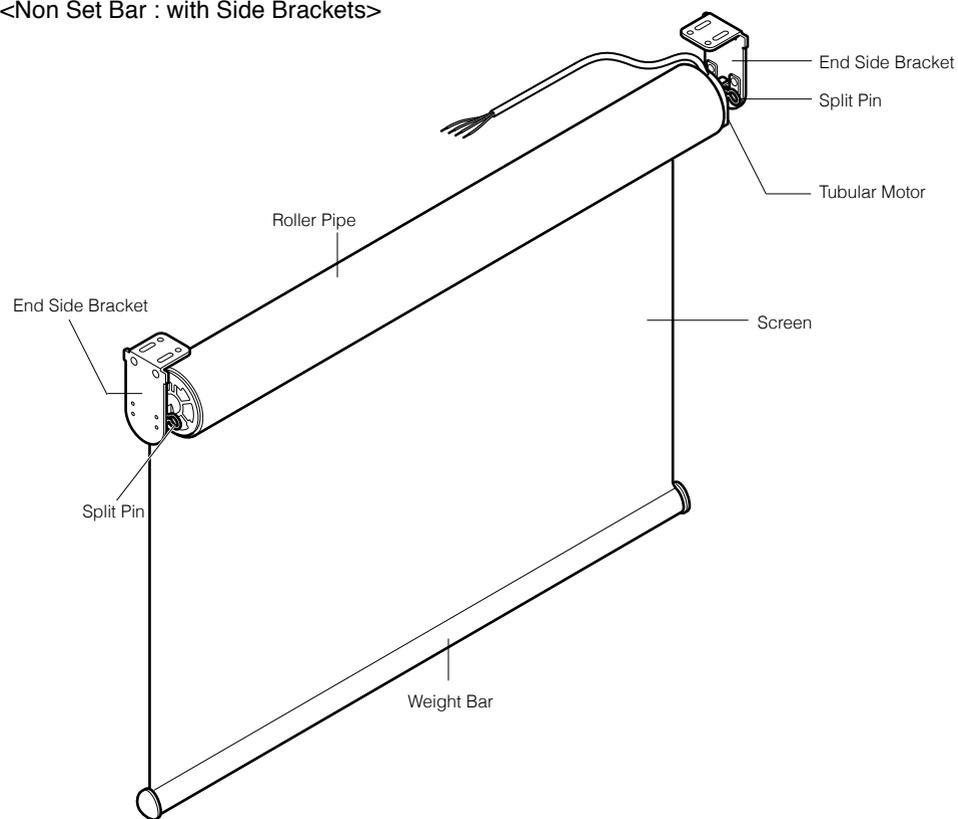
- ⊘ When there is a strong wind, either close the window or have the Screen completely rolled up.
- ⊘ Please do not dismantle the mechanical assembly nor lubricate the moving parts of this product. This will ensure physical damage or malfunction of the product.
- ⊘ To avoid breakage and malfunction, do not disassemble this product.
- ⊘ Please do not use it by open flames.
- ⊘ Around the area where the Screen is to open and close, please remember to clear all objects which may break when placed around the screen.



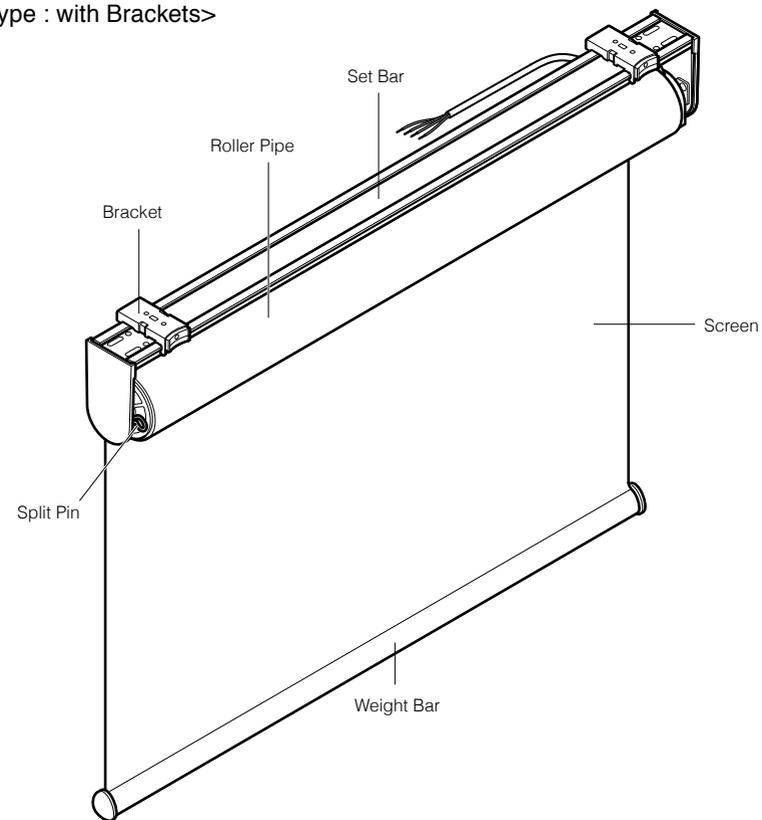
Product View and Part Names

Product View · Part Names

<Non Set Bar : with Side Brackets>



<Set Bar type : with Brackets>

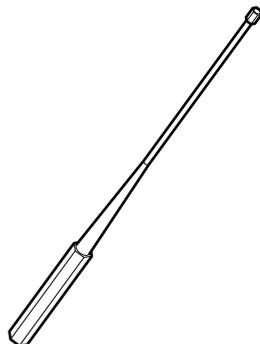
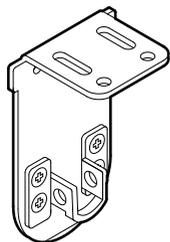


Accessories

- Bracket
ATF35 End Side Bracket

- Split Pin

- Pole for Limit Adjustment

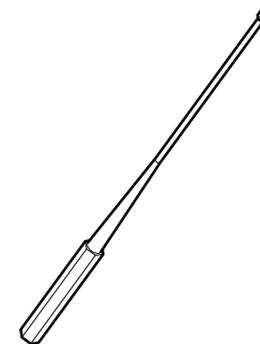
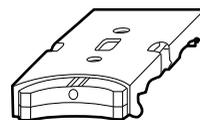


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Accessories

- Bracket
MT03 Bracket N

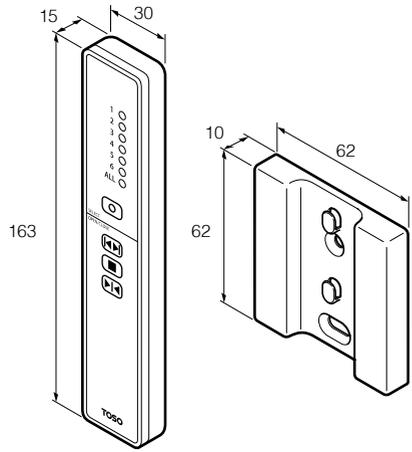
- Pole for Limit Adjustment



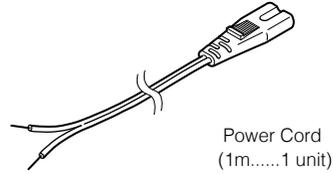
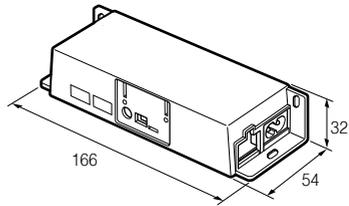
P. 5

Optional Parts (Sold separately)

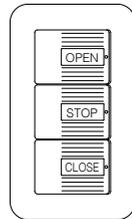
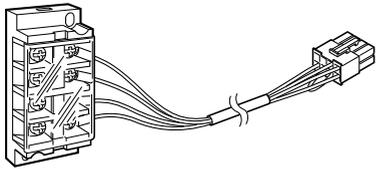
- FM Remote-Control Transmitter 2.4G



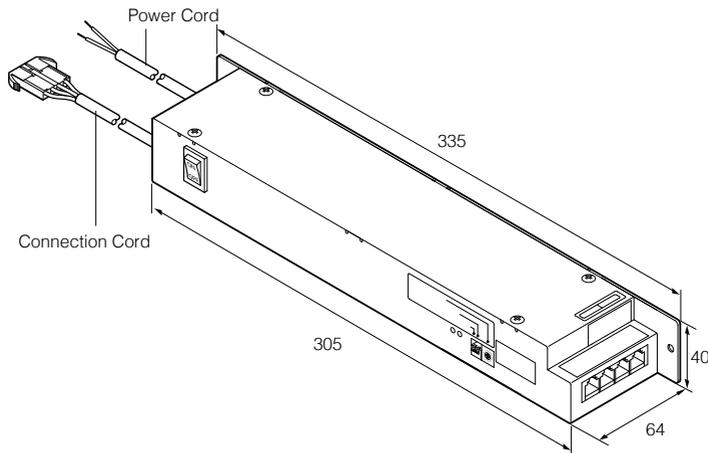
- FM Remote-Control Receiver 2.4G



- FM Remote control connector (Powerful 4P type)
- 3 Button Switch



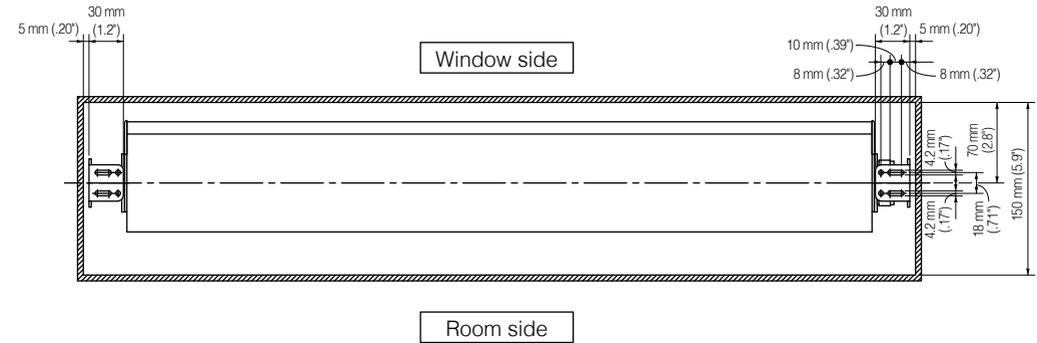
- TCU-TN



Installation and Detaching

<Non Set Bar : with Side Brackets>

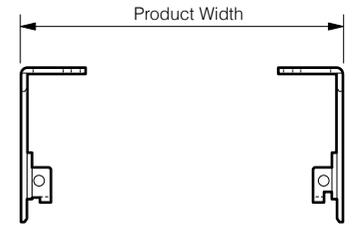
Mounting Dimensions Drawing



Installation Method

(1) Bracket Mounting Position

- Determine the End Side Bracket mounting position, so that the dimension between the End Side Brackets is the same as the ordered product width.

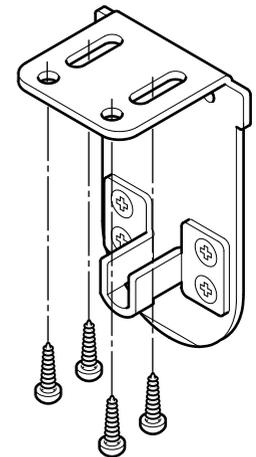


(2) Mounting of Brackets

- Mount the End Side Brackets with screws.

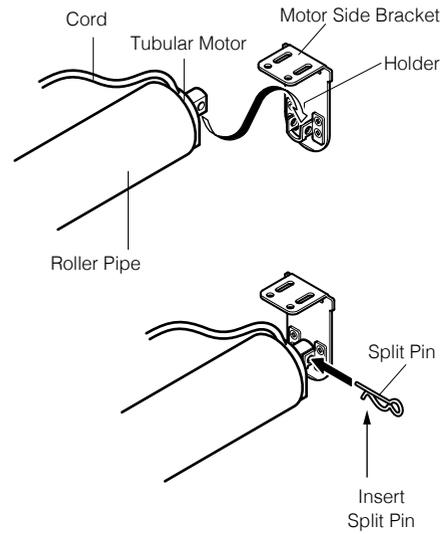
Caution

- ❗ When mounting the End Side Brackets, be sure to use 4 or more screws per Bracket.
- ⊘ Do not mount on a wall. There is a risk of the product falling.



(3) Installing Roller Pipe

- Insert the catch of the Tubular Motor into the Holder of the Brackets.
- Insert the Split Pin in the direction shown in the figure.



Caution

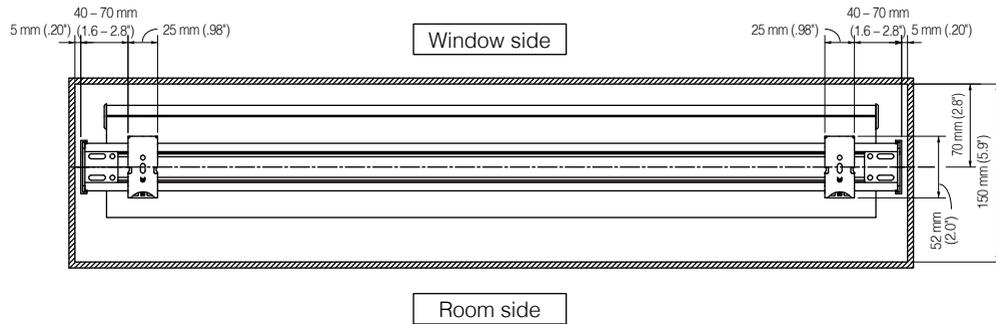
- ❗ Be sure to install so that the cord extending from the Tubular Motor is on the top side.
- ❗ Securely fix the Tubular Motor to the Bracket. If not fixed securely, the Roller Pipe may fall.

■ Detaching Method

- When uninstalling the Roller Pipe, pull out the Locking Pin, then remove the Roller Pipe.

<Set Bar type : with Brackets>

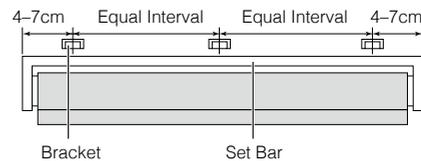
■ Mounting Dimensions Drawing



■ Installation Method

(1) Bracket Mounting Position

- Mount the Brackets in a position 4 to 7 cm from each end of the Set Bar.

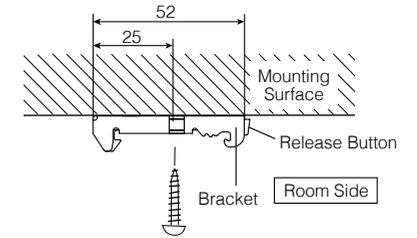


* The Brackets can be held temporarily, if the included Double-sided Tape for Temporary Positioning is used.

(2) Mounting of Brackets

- Mount the Brackets with screws so that the Release Button is on the room side (front side).

* One screw per Bracket is used. The figure on the right is a dimensions drawing to the center of the oblong hole of the Bracket. There is also a round hole in the Bracket, use this hole according to the mounting conditions.

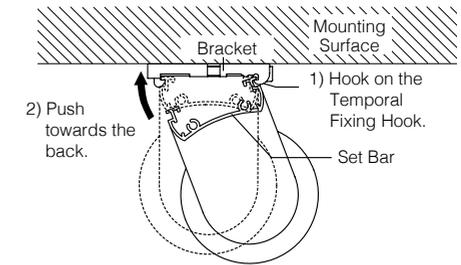


Caution

- ❗ Do not mount on a wall. There is a risk of the product falling.

(3) Mounting of Product

- Hook the outer groove of the Set Bar on the Temporal Fixing Hook (side with the release button) of the Bracket 1). Push up the Set Bar towards the back until it "snaps" 2).



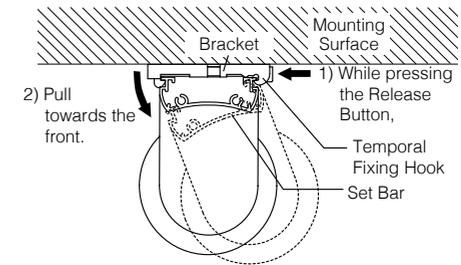
Caution

- ❗ After the product is mounted, confirm that the Set Bar is firmly fixed to the Bracket.

■ Detaching Method

- (1) While pressing the Release Button of the Bracket 1), pull the Set Bar towards the front 2).

- (2) Remove the product from the Temporal Fixing Hook.



Caution

- ❗ When uninstalling the product from the Bracket, be sure to support the product by hand.

Connection Method

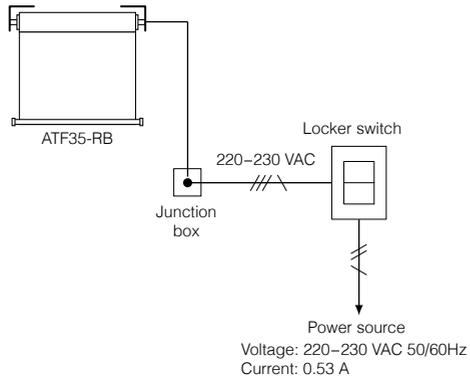


Caution

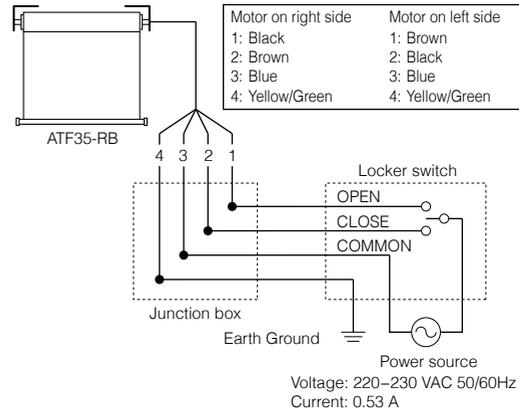
- ❗ Before routing the wiring for the power line and operation line, hold a detailed meeting with the person in charge of sales of our company, and the electrical contractor.
- ❗ Request an electrical contractor to perform the wiring and connection work.
- ⊘ Do not turn ON the power during the wiring connection work. There is a possibility of an electric shock.

Single Operation

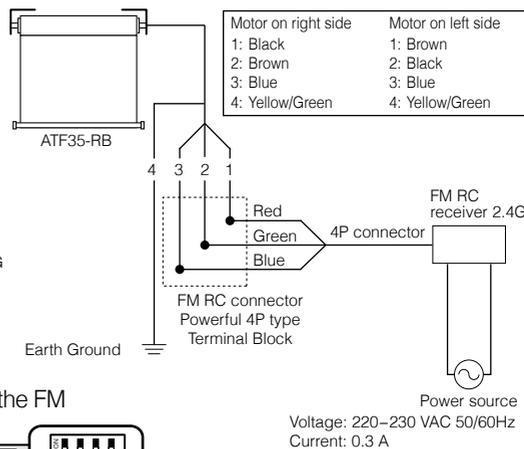
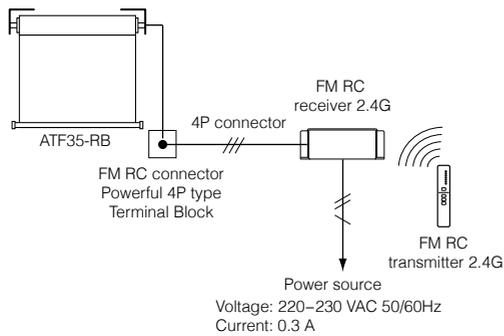
Basic Wiring Diagram



Basic Connecting Diagram

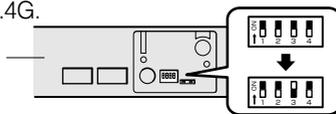


FM Remote Operation



- Turn ON No. 3 of the various settings switch of the FM Remote-Control Receiver 2.4G.

FM Remote-Control Receiver 2.4G

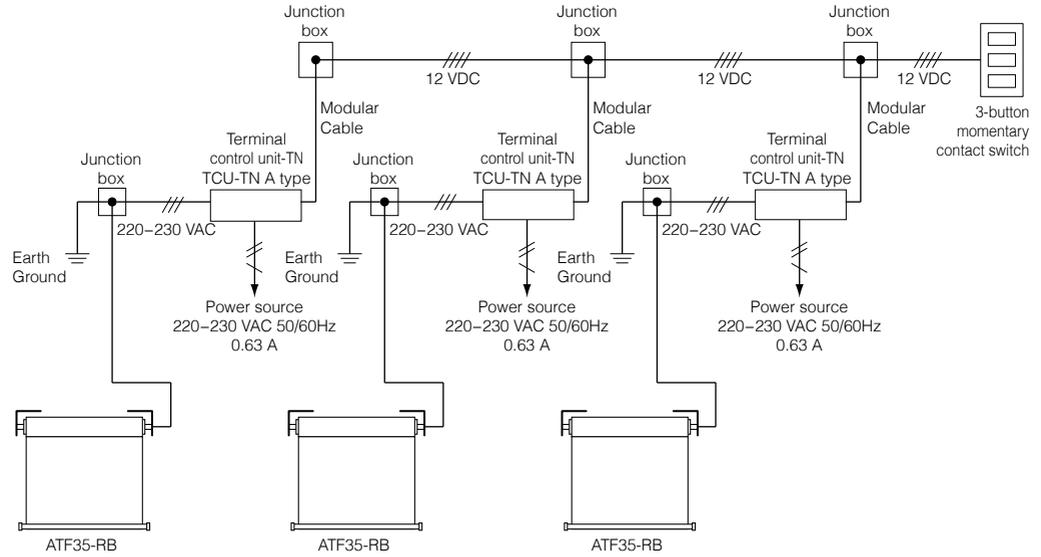


Caution

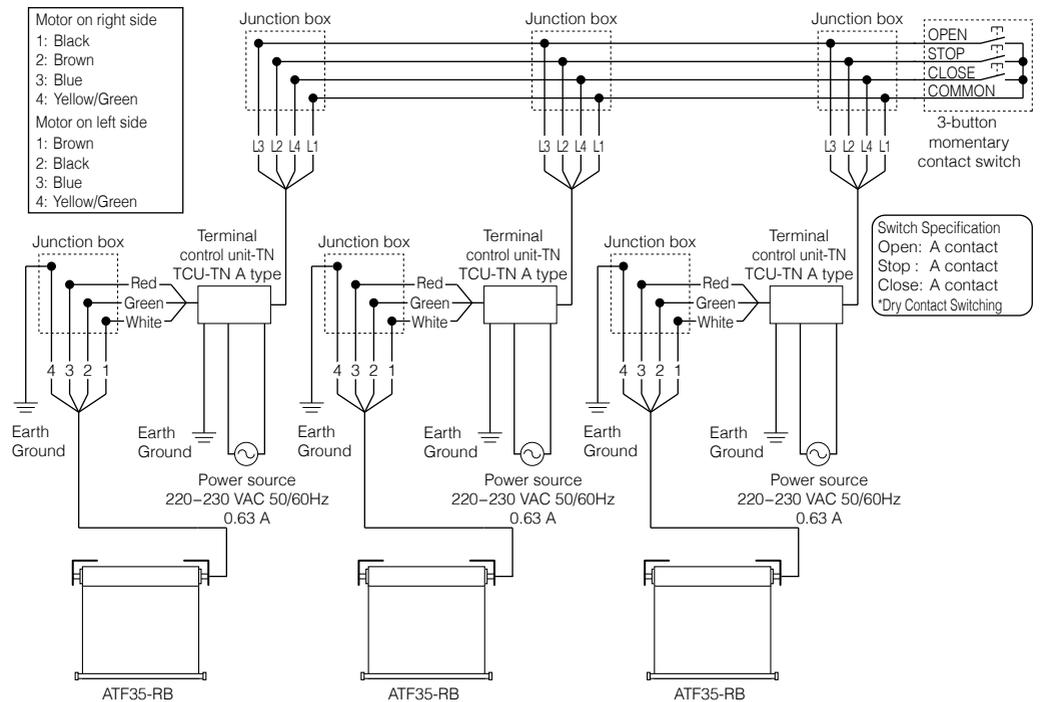
- ⊘ The 3 Button Switch and the FM Remote-Control can not be used together.

Simultaneous Operation

Basic Wiring Diagram



Basic Connecting Diagram



Switch Specification
 Open : A contact
 Stop : A contact
 Close : A contact
 *Dry Contact Switching

Check the Operation

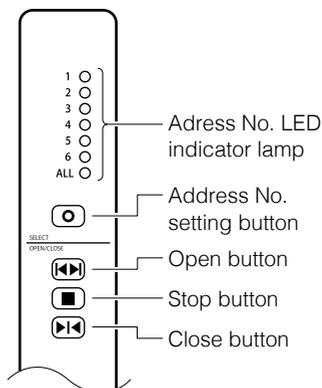
- (1) Confirm that there is no miswiring of the wiring connections.
- (2) Turn ON the AC220–230 V power.
- (3) Operate each of the switches.

■ Operating Method of each Switch

<For the FM Remote-Control Transmitter 2.4G>

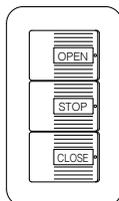
Register the address of the FM Remote-Control Receiver before using the transmitter.
Refer to the Instructions Manual of the FM Remote-Control Transmitter 2.4G for the details.

- (1) Press  Address No. setting button until the LED indicates the Address No. of the product you operate.
(If ALL is indicated, all of the transmitter can operate at the same time)
 - (2) Press  open button or  close button to operate the motorized product. If  stop button is pressed during operation, the product stops operating.
- * Refer to the Instructions Manual of the FM Remote-Control Transmitter 2.4G for the details.



<For the 3 Button Switch>

- (1) To roll up the Screen, press the **OPEN** button.
- (2) To stop the Screen in the middle, press the **STOP** button.
- (3) To roll down the Screen, press the **CLOSE** button.



Changing Method of Upper and Lower Limit Positions

- The range for rolling up and down (upper/lower limits) the Screen in the up and down directions has been preset for this product, according to the product dimensions ordered by the customer. When changing the upper and lower limit positions, use the following procedures to change the positions.



Caution

- ❗ Be sure to use the individual switches to change the upper and lower limit positions for each product. If changed simultaneously, it may not be possible to set to a normal position.
- ❗ Be sure to press the STOP button once before changing the upper and lower limit positions. The Screen may suddenly start operating while the upper and lower limit settings are being set.

■ Limit Switch

- The Limit Switch for setting the upper and lower limits, is located on the lower portion of the cord extending from the Motor.
- There are two Limit Switches. The upper limit and lower limit differs depending on whether the cord is extended from the right or left side of the Motor Controller.

	Left Side (Motor on left)	Right (Motor on right)
On front, viewed from front of main body	For setting upper limit	For setting lower limit
On back, viewed from front of main body	For setting lower limit	For setting upper limit

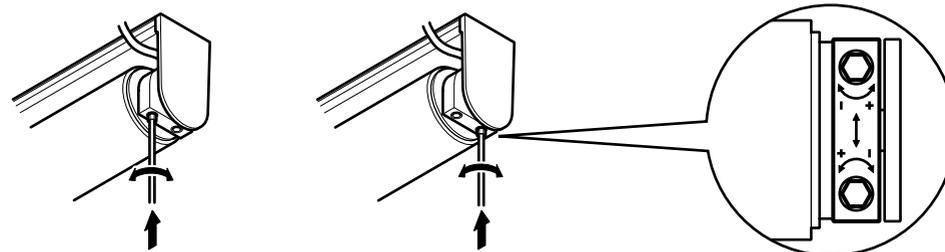
■ Changing Method of Upper and Lower Limit Positions

<When adjusting Upper Limit>

- (1) Insert the Pole for Limit Adjustment into the Limit Switch for setting the upper limit (on the back side when viewed from front of main body for the motor on the right, and front side for the Motor on the left).
- (2) When the Pole for Limit Adjustment is turned in the "+" direction, the upper limit setting will raise. When turned in the "-" direction, the upper limit setting will lower.

<When adjusting Lower Limit>

- (1) Insert the Pole for Limit Adjustment into the Limit Switch for setting the lower limit (on the front side when viewed from front of main body for the motor on the right, and back side for the Motor on the left).
- (2) When the Pole for Limit adjustment is turned in the "+" direction, the lower limit setting will lower. When turned in the "-" direction, the lower limit setting will raise.



Troubleshooting

■ Check the following items before determining that there is trouble with the product.

Phenomenon	Probable Cause and Actions
Product does not operate.	● Power not turned ON in various controllers. ⇒ Connect the various controllers to AC220–230 V.
	● Upper and lower limit positions are set in the same position. ⇒ Reset the positions according to P.13 "Changing Method of Upper and Lower Limit Positions".
	● Various controllers are not connected correctly to switches and/or the interior wiring. ⇒ Reconnect the controller according to P.10 "Connection Method".
Screen moves in opposite direction of the operating direction.	● Various controllers are not connected correctly to switches and/or the interior wiring. ⇒ Reconnect the controller according to P.10 "Connection Method".
Product does not operate sometimes.	● Various controllers are not connected correctly to switches and/or the interior wiring. ⇒ Reconnect the controller according to P.10 "Connection Method".

Product Specification

■ ATF35-RB Motor Specification

Rated Voltage	AC220–230V +/- 10%	
Power Supply Frequency	50Hz	60Hz
Rated Current	0.53A	
Power Consumption	121W	
Rotation Speed	23.5rpm	27rpm
Rated Torque	3Nm	
Operating Ambient Temperature	-10–40°C	
Time Rating	4 Minutes	

Cleaning

- Whenever necessary, wipe the product with dry, clean, and soft cloth.
- Refrain from directly applying water, thinner or other chemicals to the product. Those materials may cause damages, discoloring, and distortion to the product.