
Motorized Drapery Track

SM Automatic

No. N-140006E

01

Instruction Manual Model 140-S

Thank you for purchasing SM Automatic 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 customers.

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CAUTION

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

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



Warning

Illustrates when misused, there are dangers of serious injuries or possible fatal accidents.



Caution

Illustrates when misused, there are dangers of casualties or possible physical damage of the product.

- This document illustrates safety points to be kept using below symbols.



Illustrates specific conducts which are prohibited.



Illustrates specific guidelines which are enforced.

■ Precautions upon Installing the Product



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 a product as instructed with necessary quantity of brackets. If not the product may fall.



Caution

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



■ Safety in Use



Warning

- ⊘ Do not hang anything on this product or do not hang down. This may cause an accident.
- ⊘ Power source for this product is AC100V ~ 240V. Do not use any other power supply.
- ⊘ This product supports our designated switch only. Do not use any other switch.
- ⊘ 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.
- ⊘ Avoid handling power plugs with wet hands. Doing so may result an electric shock.



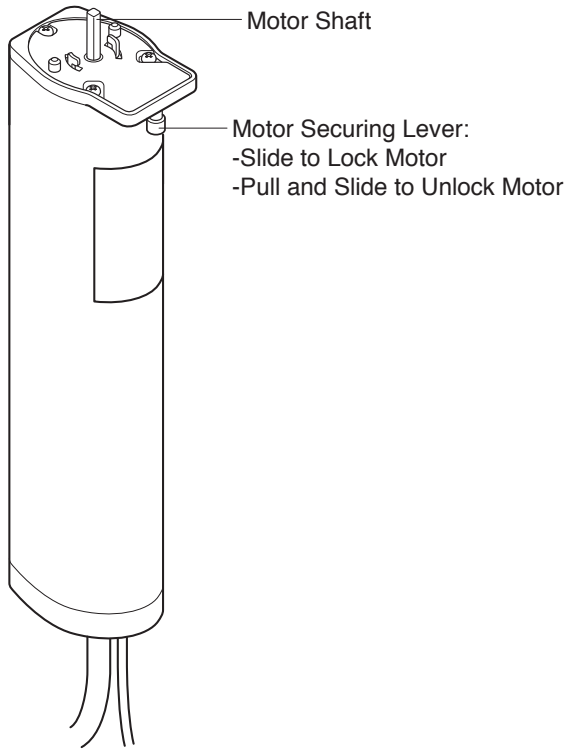
Caution

- ⊘ When there is strong wind, please either close the window or have the draperies completely open.
- ⊘ 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.

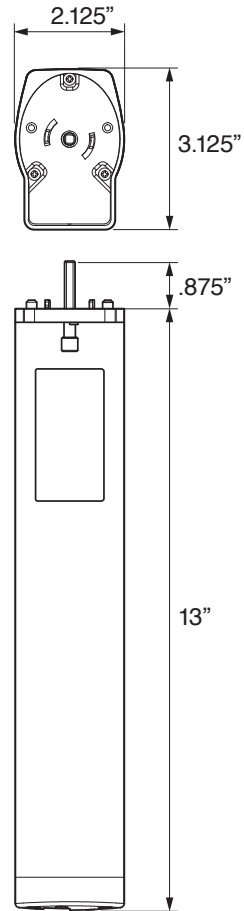


Product View and Parts Names

■ Product View and Parts Names

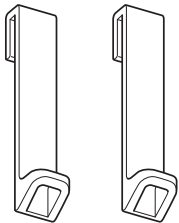


■ Model 140-S Motor Set Dimensions (in)



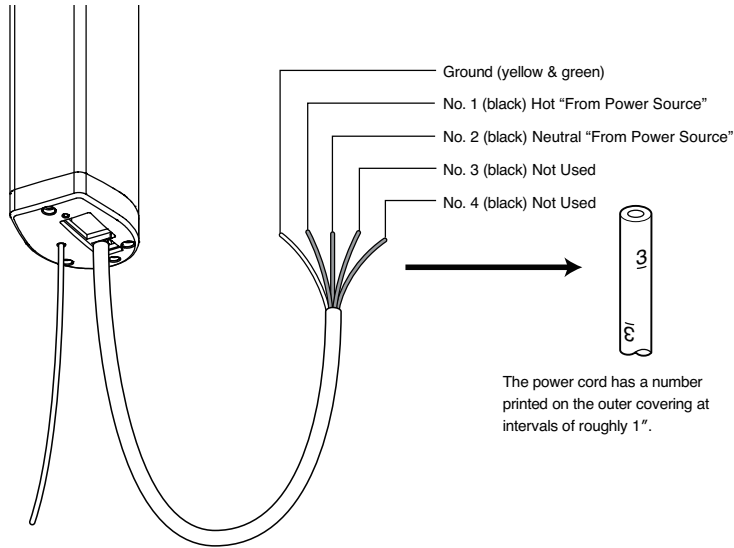
■ Accessories

- Drapery Hook x 2pcs - Attach Hooks to Motor Pulley and End Pulley (if applicable) Before Installing Track



Model 140-S

Basic Wiring and Connecting Diagram for RF Remote Control or Dry Contact Switching - Using 3 Wires



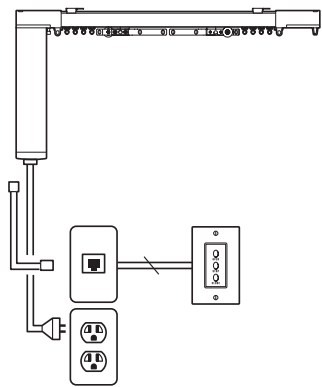
Operations and Connecting Diagrams

Wire	3 Wires	
	Ground	Hot Neutral
Contact	Dry	
RF Remote	Yes	
Slow Stop	Yes	
Touch Motion	Yes	

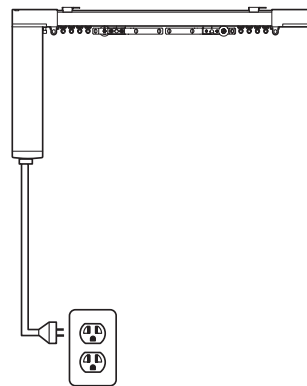
Drapery Motors Electrical/Electronic Control and Wiring Information Guide

Recommend use of a Surge Protected 110 VAC duplex outlet.

A. S-300A Switch Individual Control

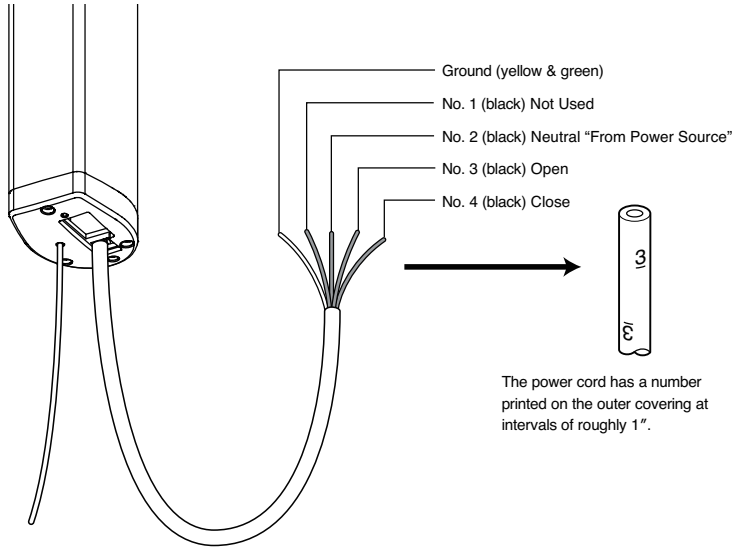


B. Individual Radio Frequency Remote Control



Model 140-S

Basic Wiring and Connecting Diagram for Line Voltage Switching - Using 4 Wires

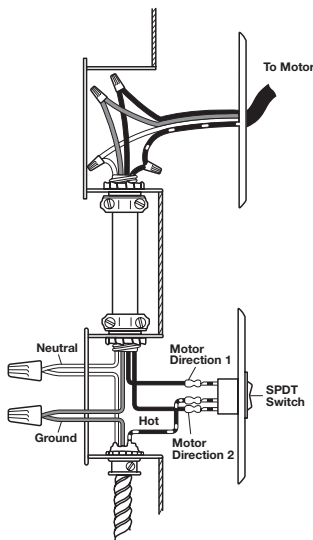


Operations and Connecting Diagrams

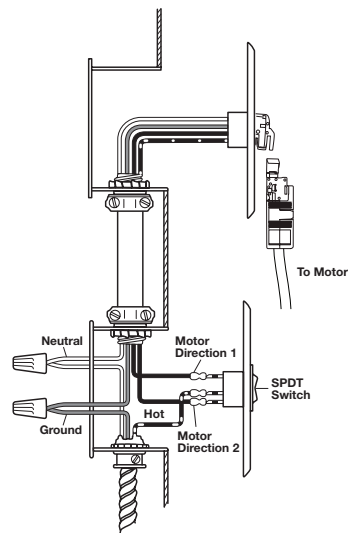
Wire	4 Wires	
	Ground	Neutral
Contact	Line Voltage	
RF Remote	No	
Slow Stop	No	
Touch Motion	Yes	

Hard Wiring (HW)

All motors come with a 4 wire 18 gauge grounded pigtail. This consists of a neutral, two directional wires, and a ground. This type of wiring is used when the motor is to be controlled by a recessed wall switch. The pigtail is connected by either hard wiring or a plug/ receptacle. A single motor is controlled by a SPDT (single pole, double throw) switch. Two motors can be controlled together by a DPDT (double pole, double throw) switch.



Standard Hard Wiring



Hard Wiring with optional plug/receptacle

Programming the RF Remote Control Transmitter

(When using any Ti-RF Remote Control Transmitter)

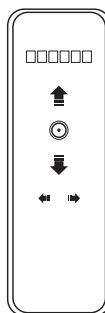
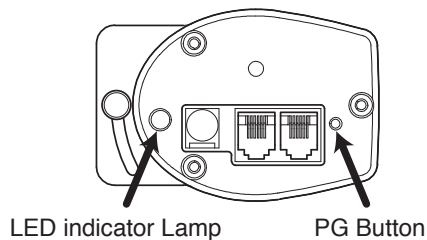


Caution

- ❗ Transmitter address assignment may not be programmed before shipping. Make sure to program an address number before carrying out installation and wiring.
- ❗ Use the Ti-RF Remote Control Transmitter (sold separately) to program the address number to the Motor. (The Motor will only respond to signals sent from transmitter used for address number registration.)
- ❗ Carry out address number programming separately for each Motor.

■ Programming Instructions for the RF Remote Control Transmitter

- (1) Insert the power cord into an electrical outlet.
- (2) Using a paper clip or tool with a diameter of 1 mm, press the PG Button on the bottom of the Motor for approximately 1 second. The LED indicator lamp will flash red slowly to indicate it has entered registration mode.
 - * The red light will continue to flash for approximately 10 seconds, after which it will turn off automatically and the device will return to normal operating mode. Complete address number registration while the LED indicator Lamp is flashing red.
- (3) While the indicator lamp is flashing red, press the transmitter's Address No. Setting Button, select the address number you want to register, and press the Open Button once. When the motor receives the transmitter's signal, the LED indicator Lamp will quickly flash blue 3 times and then turn off to indicate registration is completed.



- Address No. LED Indicator
- ↑ Open Button
- Stop Button
- ↓ Close Button
- ← → Address No. Setting Button

Changing Battery:

1. Use one CR2032 lithium battery.
2. Remove single screw on back.
3. Gently push and slide down on front of transmitter.
4. Insert new CR2032 lithium battery.
5. Gently push and slide up on cover.

⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



■ Deleting Instructions for the RF Remote Control Transmitter

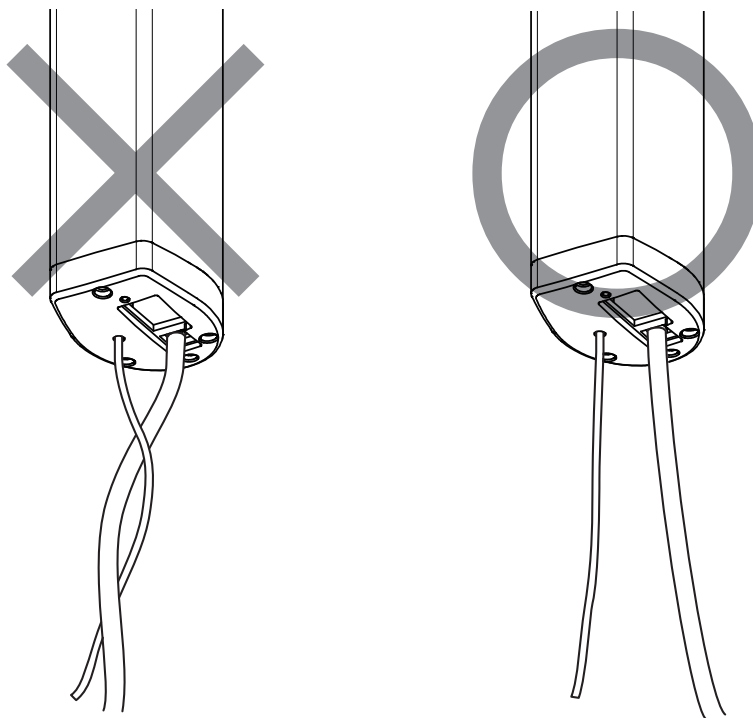
This operation will delete all address numbers registered with the Motor.

- (1) Insert the power plug into an electrical outlet.
- (2) Using a paper clip or tool with a diameter of 1 mm, press the PG Button on the bottom of the Motor for approximately 3 seconds. The LED indicator Lamp will flash red quickly to indicate it has entered deletion mode.
 - ※ The red light will continue to flash for approximately 10 seconds, after which it will turn off automatically and the device will return to normal operating mode. Complete address number deletion while the LED indicator Lamp is flashing red.
- (3) While the lamp is flashing red, press the PG Button on the Motor once. The LED indicator Lamp will illuminate blue for 1 second to indicate the deletion is completed.



Caution

- ❗ The motor's signal-receiving performance will be greatly reduced if the power cord and antenna cable become entwined or entangled as shown below. Install the product with the power cord and antenna cable separated.



Check the Operation

(1) Ensure the Motor has power.

※ When the product is powered on for the first time, it will memorize fully opened and closed position(limit) of the drapery.

If the product's power supply is cut off, limit position information will be lost and detection will be carried out again on the next power opening and closing of the draperies.

(2) Test the product by operating the various switches/buttons.

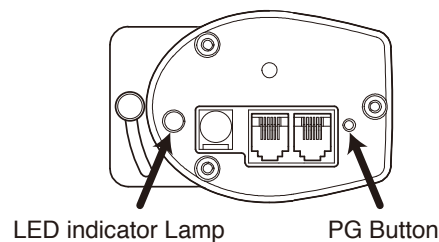
■ Disabling Method of Touch Motion Operation

The product is shipped with touch motion function "ON".

(1) Insert the power plug into an electrical outlet.

(2) Using a paper clip or tool with a diameter of 1 mm, press the PG Button on the bottom of the Motor for approximately 7 seconds. The LED indicator Lamp will flash red repeatedly and then flash blue 3 times before turning off to indicate the touch motion functional has been turned "OFF".

(3) When you change a touch motion function to "OFF" → "ON", please perform steps same as (1)(2) mentioned above.



After pressing the PG Button for 7 seconds,
the LED indicator Lamp will flash red slowly for 3 seconds →

Flash red quickly for 4 seconds→

Flash blue quickly 3 times before turning off.

Product Specification

Source Voltage	V	AC100 - AC240
Power Frequency	Hz	50/60
Power Consumption	W	During stand by: 2.5W or lower/Max. load operation: 80W
Operation Voltage	V	5 VDC
Operation Current	mA	5mA
Rated Current	Nm	0.8
Time Rating	min.	4min. (continuous operation)
Ambient Temperature	°C	0 to 50°C (non-condensing)

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.

Troubleshooting

■ Before you decide that the trouble is a malfunction, perform the following check.

Condition	Possible Causes and Solutions
Not operating	● The power cord plug of Motor is not connected to 110 vac outlet. ⇒Ensure the outlet has power.
	● The wire from the switch is not connected to the Motor. ⇒Refer to "Wiring Method" on pages 5 or 6 and connect appropriately.
	● If using a RF Remote Control Transmitter, address number registration has not yet been completed using a designated transmitter. ⇒Follow the instructions in the RF Remote Control Transmitter Instruction Manual to register an address number.
	● If using a RF Remote Control Transmitter, the transmitter's batteries may have worn out. ⇒Install a new Lithium CR2032 battery in the transmitter.
Unstable operation	● If using a RF Remote-Control Transmitter, batteries are old. ⇒Replace old batteries with a new Lithium CR2032 battery.
	● There is an obstacle blocking the drapery. ⇒Remove the obstacle before the drapery traverses in the opening/closing position.
	● Connection between the interior wiring and the switch or the modular outlet is loose. ⇒Ensure proper wiring connection.
Moves adversely and in opposite direction	● The track is not assembled correctly. ⇒Refer to the track assembly "Instruction Manual".
	● The switches and interior wiring are not connected correctly. ⇒Swap the open and close cable positions.
	● The interior wiring and Modular outlet are not connected correctly. ⇒Swap the open and close cable positions.

Serial Number Display and Customer Contact Points

● We carry out the strictest quality control possible for every one of our products. However, if a malfunction or breakdown occurs, please confirm the serial number as indicated on the product label and contact the company from which you purchased the product.

