Single Motor to Single Switch Control
Standard Motor Technology

The simplest automated shade control using wired technology motors. These 4-wire motors have 2 directional hot lines that wire directly to a single-pole / double-throw switch that offers stopping at the upper, lower limits and any position in between by simply turning power off to the motor. Two or more motors cannot be wired to 1 SP/DT switch.

Standard Motor Features

Wired Technology Somfy motors offer control through A/C wired switches	Strong, quiet and consistent motor operation
UL rated full shade	Full 5 year motor warranty

Control Options **Overview**

Technical Description

- Momentary switch requires continuous depression to operate motor
- Maintained switch locks in position and remain on until motor reaches limit
- SP/DT (Single Pole/ Double Throw): for use with 1 single motor only
  - Cannot parallel wire with an additional motor
- Requires a 4 conductor, 120V/60Hz motor cable

Control Options

STANDARD SP/DT MOMENTARY ROCKER SWITCH KIT WITH SWITCH PLATE COVER

Color Options

White - 1800345

Ivory - 1800344

STANDARD SP/DT MAINTAINED ROCKER SWITCH KIT WITH SWITCH PLATE COVER

Color Options

White - 1800342

Ivory - 1800341

HEAVY DUTY SP/DT MOMENTARY KEY SWITCH (2 KEYS)

Color Option

Ivory Switch Plate - 1800333

HEAVY DUTY SP/DT MAINTAINED KEY SWITCH (2 KEYS)

Color Option

Ivory Switch Plate - 1800332

Sonesse® 50 Motor Series - Standard & Heavy Duty Automated Shades

Standard Motor	Torque	Nominal Voltage	Rated Current	Speed	Thermal Protection	Sound Level
Ultra Sonesse® 506	Nm	120V/60Hz	.95A	24 rpm	4 min	< = 38 dBA
Sonesse® 506	Nm	120V/60Hz	1.2A	32 rpm	4 min	< = 45 dBA
Sonesse® 510	Nm	120V/60Hz	1.67A	32 rpm	4 min	< = 47 dBA
LT50 515	Nm	120V/60Hz	1.8A	38 rpm	5 min	< = 56 dBA
LT50 525	Nm	120V/60Hz	1.6A	20 rpm	5 min	N/A

Sonesse® 40 Motor Series - Standard Automated Shades

Standard Motor	Torque	Nominal Voltage	Rated Current	Speed	Thermal Protection	Sound Level
Sonesse® 404S2	4 Nm	120V/60Hz	.95A	36 rpm	4 min	42 dBA
Sonesse® 406A2	6 Nm	120V/60Hz	1.2A	24 rpm	4 min	44 dBA
Sonesse® 409RS	9 Nm	120V/60Hz	.98A	14 rpm	4 min	40 dBA

Motor Cable Specifications

Motor Cable
120V / 60Hz
4 Conductor

White = NEUTRAL
Red = DIRECTION 1
Black = DIRECTION 2
Green = GROUND

Maximum Power Cable Length			
Gauge	14 AWG	16 AWG	18 AWG
Max Length	240 ft.	150 ft.	100 ft.

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3

Wiring Diagram

Rocker Switch
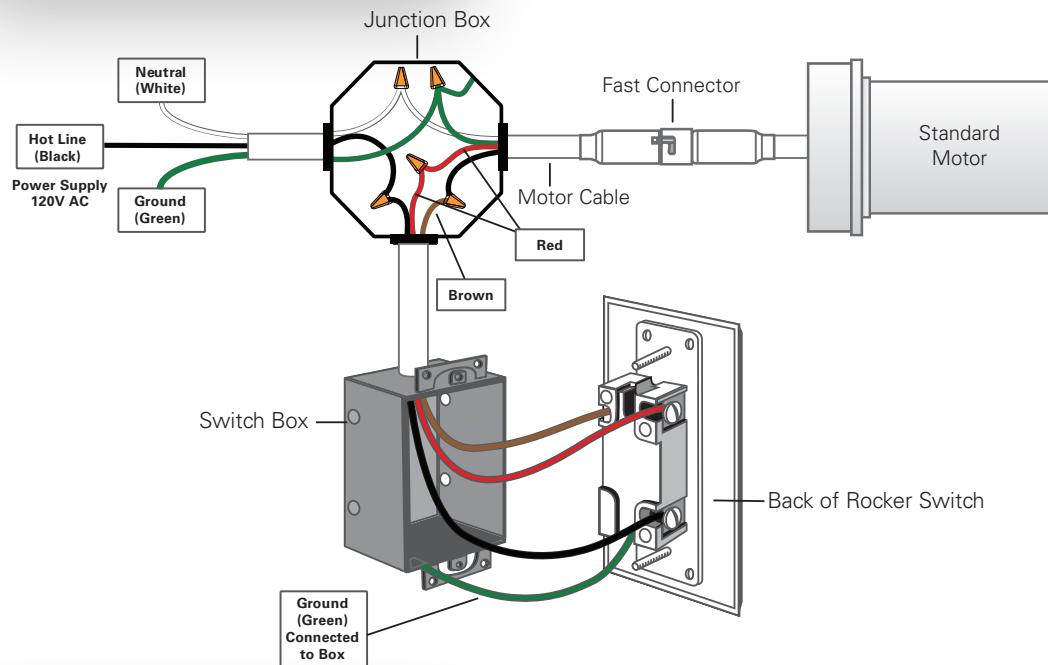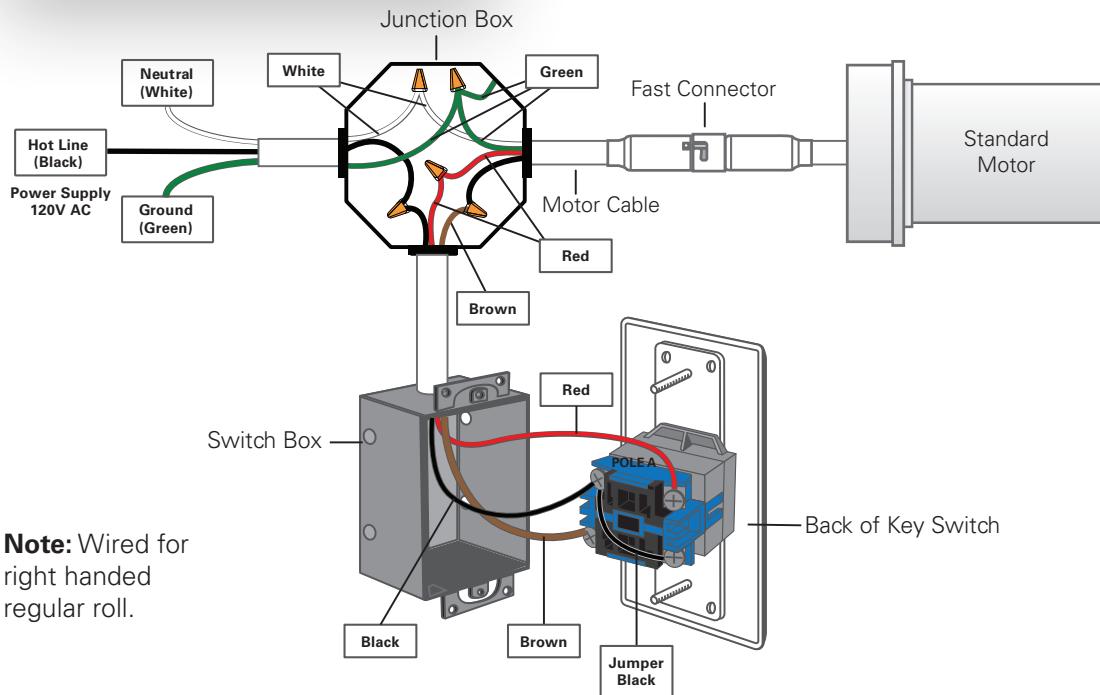
Junction Box

Neutral (White)

Hot Line (Black)

Power Supply 120V AC

Ground (Green)

Fast Connector

Motor Cable

Standard Motor

Red

Brown

Switch Box

Back of Rocker Switch

Ground (Green) Connected to Box

Key Switch

Junction Box

Neutral (White)

White

Green

Hot Line (Black)

Power Supply 120V AC

Ground (Green)

Fast Connector

Motor Cable

Standard Motor

Red

Brown

Red

Switch Box

POLE A

Back of Key Switch

Note: Wired for right handed regular roll.

Black

Brown

Jumper Black

Motor Cable
**120V / 60Hz
4 Conductor**

White = NEUTRAL
Red = DIRECTION 1
Black = DIRECTION 2
Green = GROUND

| Maximum Power Cable Length			
Gauge	14 AWG	16 AWG	18 AWG
Max Length	240 ft.	150 ft.	100 ft.

The Fast Connector is incorporated into the motor wiring, eliminating the need for an electrician on the shade installation portion of the project.

Fast Connector Features

- Interior - Sonesse® 50 AC Motor Series
- For Radio Frequency and Wired motors
- Safe easy to use connection (UL recognized)
- Plug & Play extensions (no electrician needed at shade installation)
- Connector available in white

4" wide when connected

0.75"

Female Connector
(see table for available lengths)

Male Connector
(only available in 1.6ft)
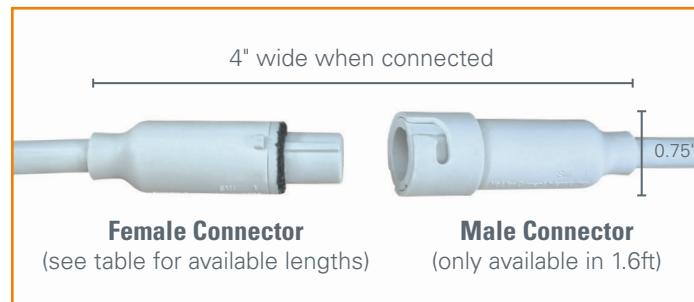
Sonesse® 40 Motor and Sonesse® 50 Motor Series Parts

- Motor includes 1.6 ft pigtail with Fast Connector (Male)
- Unless otherwise specified, the default length for the female connector is 8.4 ft for all motors

WT Motors – Extension Cable with 4 Wire Open Leads

White = NEUTRAL
Red = DIRECTION 1
Black = DIRECTION 2
Green = GROUND
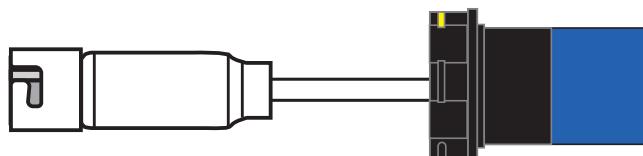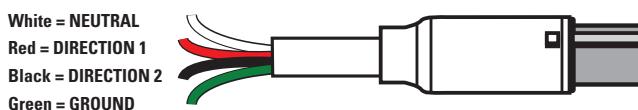
Fast Connector Assembly

**Female Connector Raised Locking Pin**

Male Connector Locking Sleeve

1. Align the male connector with the female grooved connector and push together.
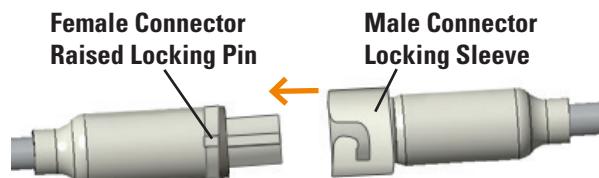
2. Align the locking sleeve with the raised locking pin and slide over the female connector.

3. Rotate the locking sleeve to secure the connectors together.

**Locked Connectors**

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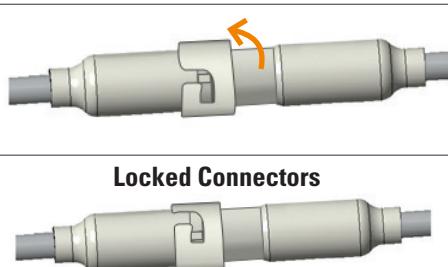
Motor Limit Settings

## Sonesse® 50 Motor Series Limit Settings

- Gently remove the yellow cap from side of motor
- Beneath the cap you will find two push buttons
- Yellow sets the clockwise rotation, white sets the counterclockwise rotation
- Make sure that both buttons are in the depressed position
  - If the motor is mounted on the right end of the shade the yellow button will set the lower limit. The white button will set the upper limit. The opposite will be true for the left end motors.
- With both the yellow and white buttons in the depressed position, the shade will move up and down. Use the motor tester cable to check your rotational direction. If the motor direction is reversed turn the power off and simply reverse the black and red motor leads.
- Push the up button on the motor test cable to position the shade in the desired upper position and press the white button, to set the upper limit.
- Push the down button on the motor test cable to position the shade in the desired lower position and press the yellow button to set the lower limit.

  For reversed roll application, the opposite is true for motor right or left.
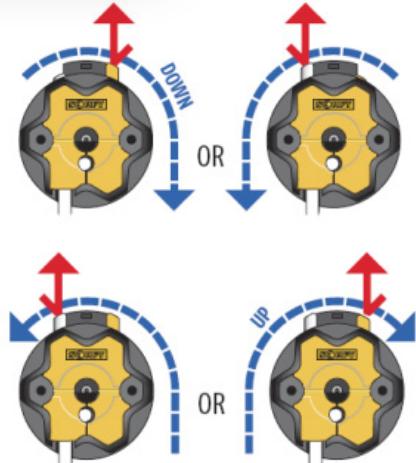
Sonesse® 40 Motor Series Limit Settings

- Connect the motor with a tester cable to the motor cable, match the wire colors and connect to power.
- Identify the up recessed limit screw by finding the arrow on the motor head which points in the direction that retracts (rolls up) the system.
- Turn the power on to ensure that the switch is operating properly (up-raise, down-lower). If not, turn the power off and simply reverse the black and red motor leads.
- Use the motor tester cable to check your rotational direction. If the motor stops before its up limit, press the switch in the up position. Turn the up screw to "+" until necessary. If the motor goes beyond its up limit flip the tester cable switch off and turn the up screw to "-".
- Repeat this until correct setting is achieved.
- Press the switch in the down position. If the motor stops before its down limit, turn the down limit screw to "+" until necessary. If the motor goes beyond its down limit flip the tester cable of and turn the down screw to "-".
- Repeat this until correct setting is achieved.
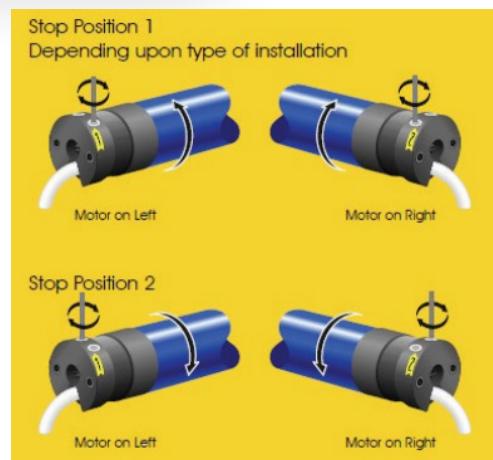
What is UL Certification?

UL helps companies demonstrate safety, confirm compliance, enhance sustainability, manage transparency, deliver quality and performance, strengthen security, protect brand reputation, build workplace excellence, and advance societal wellbeing
(UL.com).

What is UL Certification important?

UL helps advance the building products industry's drive to achieve both safety and innovation with flexible, customized service options for reliable, cost-effective product testing and certification. Architects, regulatory authorities, manufacturers, insurers, building owners, and other partners in the building materials community rely on UL for the services and knowledge that they need to enhance public safety, meet regulatory demands, protect brand value and successfully access the global market. UL product safety certifications, the code evaluation service and the UL Mark also assist code authorities, architects, designers, specifiers and contractors with accurately determining code compliance for products that must be tested and/or certified in accordance with specific standards (UL. com).

What does this mean for you as a dealer?

UL certification at the plant level can greatly reduce the potential for snags or delays in the final sign off of the project by your local AHJ (Authority Having Jurisdiction). This often includes the electrical inspector, or similar. Additionally, certification at the plant level eliminates the need for costly on-site certification, post shade installation, by a UL inspector.

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