Motor Basics and Pre-Wire Guidelines

The motors used in Insolroll systems are unique in some aspects and have wiring requirements that differ from many household devices.
Please note:
Motors are directional to run shades up and down and have four electrical wires :
Green- ground
White- common
Red- directional hot
Black- directional hot

****Motors cannot be wired in parallel and multiple motors cannot be wired to a single pole switch– directional leads must be isolated from one another**
****Failure to isolate the directional leads will burn out the motor**

- **Motors operate on 110-volt AC (except low voltage Silhouettes)**
- **Motors draw approximately 1 amp at start**
- **Motors require a double throw switch – (up – off –down)**
- **Motors are not designed for continuous operation and have built -in thermal cut-offs**
- **Motors have built-in limit switches to stop accurately when shades reach desired up and down positions**
- **Motors can be operated by wall switches, remote controls, automatic controls or interfaced with home automation systems.**

The typical wiring layout for Insolroll motorized systems requires that a single gang junction box be located within reach of the six foot motor pigtail. Key to the location of this junction box is that it does not interfere with the operation of the shade, allows for the motor hookup and is aesthetically acceptable.

- **For a single shade to be operated by a single switch there should be a 14/3 (3 wire plus ground) wire run from the junction box to the desired switch location and AC power provided to this double throw switch.**

- **For two shades to be operated by a single switch (shades will always run in unison) there must be a dedicated 14/3 wire run (homerun) from each motor to the switch location. The switch used must be a double-pole/ double throw switch.**

- **To operate more than two shades on a single switch group control relays must be used. The pre-wire when using group controls requires that there be a dedicated 14/3 wire run (homerun) from the junction box at each motor location to the relay location and AC power provided to relay location. A 14/3 switch leg then must run from relay location to desired switch location. Relays are often located in attics, basements, closets or cabinets.**

- **These guidelines for pre-wire are suited for most applications. Application specific wiring diagrams are available upon request.**

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WINDOW SHADING SYSTEMS

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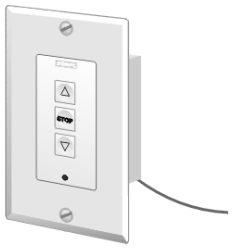
Radio Remote Control Systems
Transmitter Overview

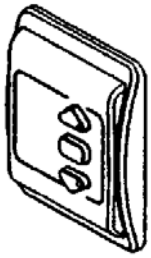
Single Channel
Hand Held Transmitter



Single Channel
In-Wall Wireless
Wall Switch

5 Channel
Hand Held Transmitter

5 Channel
In-Wall Wireless
Wall Switch

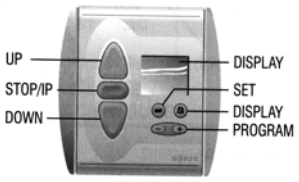


Single Channel
Surface Mount
Wireless Wall Switch

- Transmitter must be within 70 ft of motor heads
- Each transmitter can control an unlimited number of motors
- 4 Channel Transmitter has 5 channel group capability
- Transmitter/Wall switches work in conjunction with:
  - Built-In Radio Receiver Motor
  - Eolis Receiver
  - Centralis Receiver

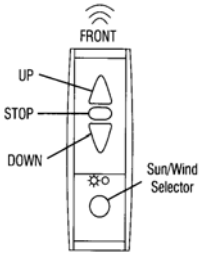
Radio Remote Control with Chronis Timer

- Chronis Timer is a wireless digital timer compatible with all new radio receivers (Centralis, Eolis, Soliris and Built-In Radio Receiver Motor)



Soliris 1 Channel Transmitter

- Transmitter works in conjunction with Soliris Receiver and Soliris Sensor



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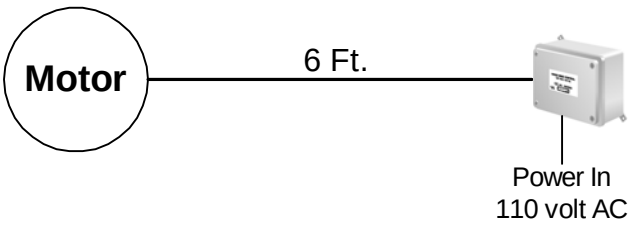
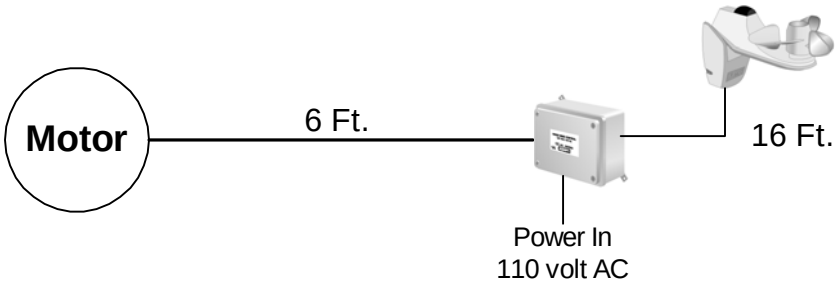
Radio Remote Features

Centralis Receiver

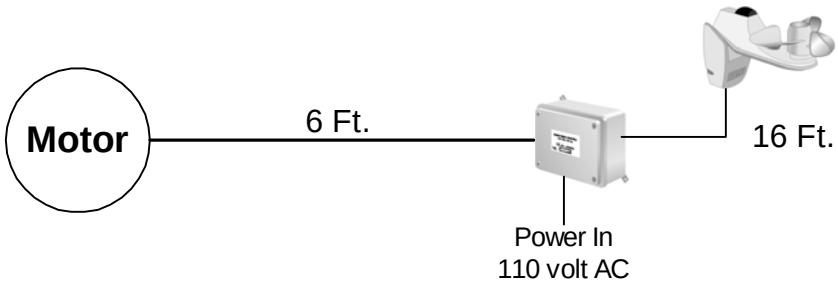


Eolis Receiver for Wind Control



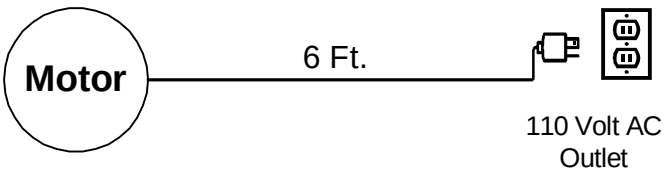
Hard Wired
Wind Sensor

Soliris Receiver for Sun and Wind Control



Hard Wired
Sun & Wind Sensor

Built-In Radio Receiver Motor
(For Interior Applications Only)



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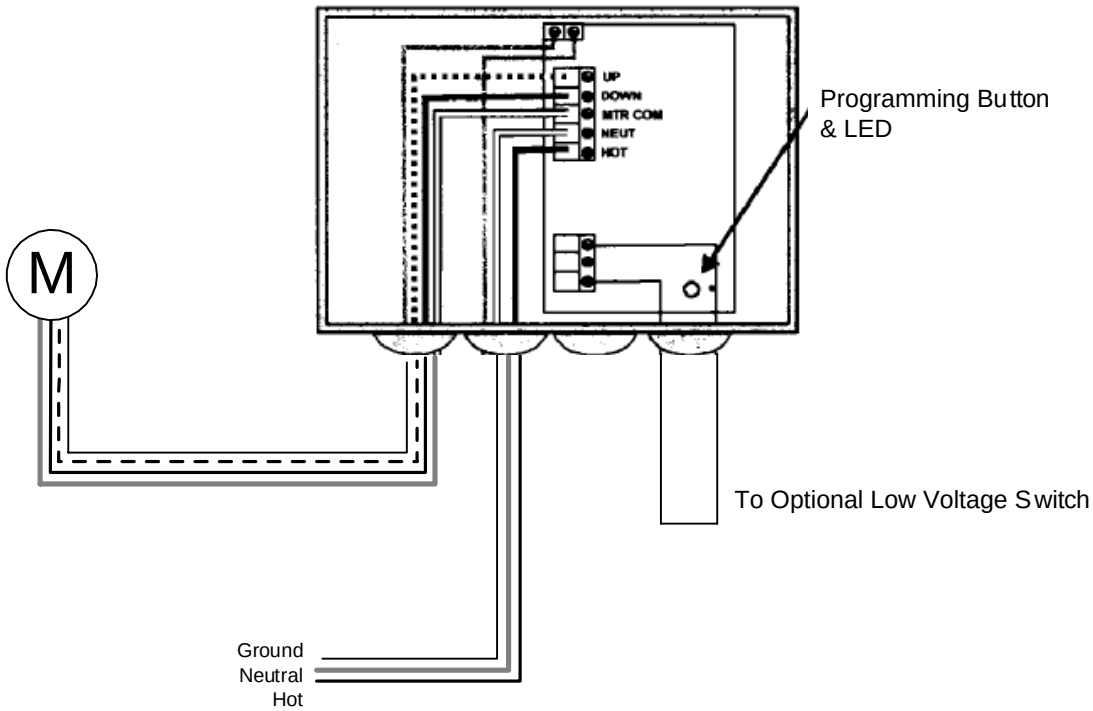
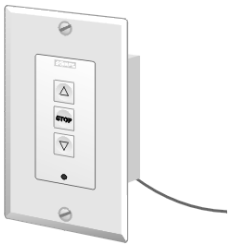
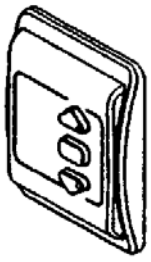
Radio Remote Control Systems
One Motor and Centralis Receiver with Individual Operation via Transmitter





Single Channel
In-Wall Wireless
Wall Switch

Single Channel
Hand Held Transmitter



Single Channel
Surface Mount
Wireless Wall Switch

M — Motor

Ground (Green)

Directional (Black)

Directional (Red)

Common

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CENTRALIS RECEIVER

Inteo Remote Control

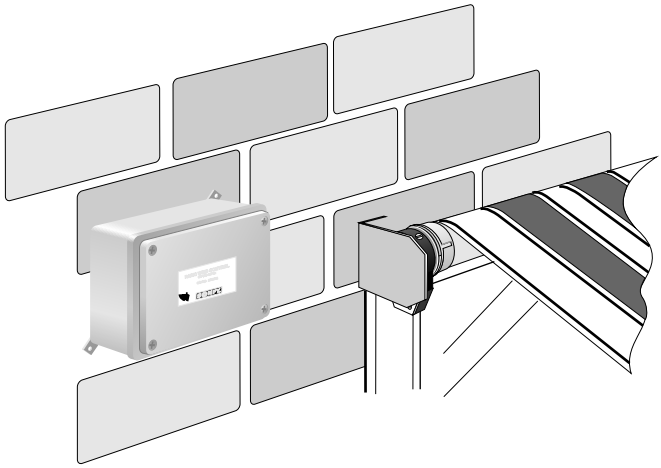
Installation and Operating Instructions

DESCRIPTION

Catalog No: 6301023

The Somfy Centralis Receiver is a single motor control designed for residential use. It includes an integrated radio receiver, plus input terminals for an optional low voltage switch. Using the Telis Transmitters, it is possible to operate the controls individually or in groups. Two user-defined intermediate positions can be programmed. This new control is packaged in a weatherproof enclosure and includes watertight strain-relief fittings for wires entering the box.

INSTALLATION PROCEDURES



1. The Centralis Receiver should be mounted as close to the motor as possible. If mounted outside, ensure that the connections are facing down to avoid rain seepage. Avoid mounting the control against any metallic surface, as this may affect the radio reception.

2. Connect high and low voltage wires according to the wiring diagram on the next page. It is recommended that the low voltage wiring is done first, for easier access to the terminals. Make sure to use included watertight strain relief fittings to maintain the weatherproofing of the enclosure.

3. When using a low voltage switch, it should be located no more than 100 feet from the Centralis Receiver.

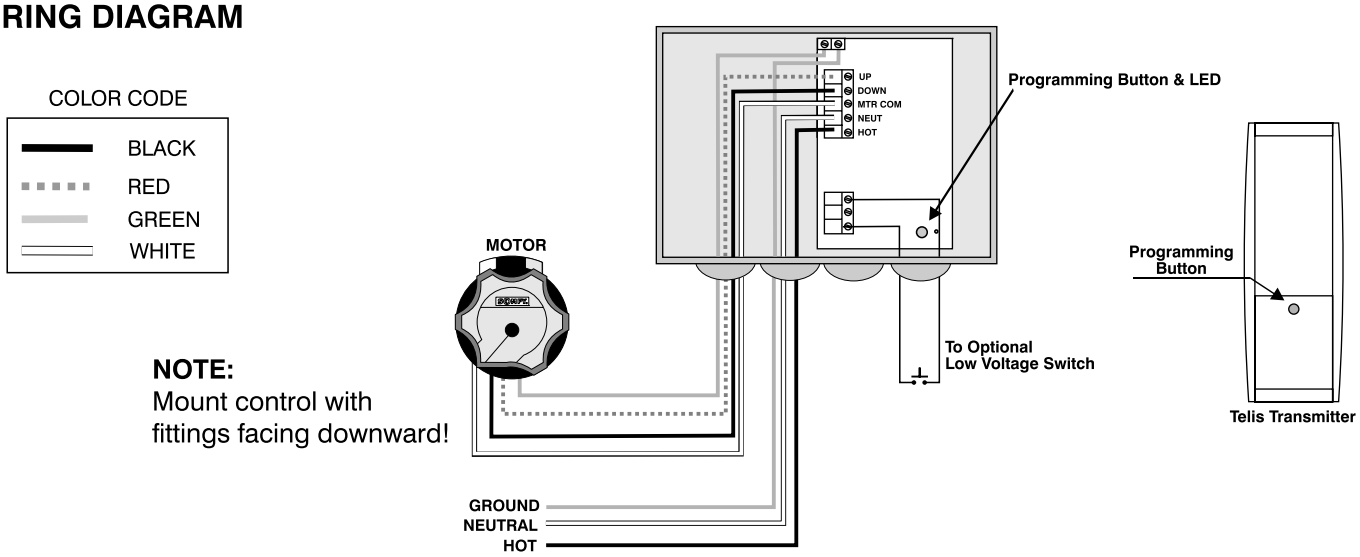
SOMFY SYSTEMS, INC.
47 Commerce Drive
Cranbury, NJ 08512

SOMFY CANADA
6315 Shawson Drive, Unit #1
Mississauga, Ontario L5T1J2

SOMFY MEXICO S.A. De C.V.
Calle 3 No.47, Loc.E-5
Fracc Ind. Alce Blanco
Nau.,Edo. de Mex C.P. 53370,Mex

CAT. NO: 2500023

WIRING DIAGRAM



OPERATING INSTRUCTIONS

System Set Up

1. With power off, wire Centralis as indicated above. Turn all circuit breakers on (motors should not move).

2. Set the Centralis Receiver into programming mode by pressing the programming button on the receiver until the LED lights (about 5 seconds).

3. Press the programming button on the Telis1 or Telis4 transmitter. Make sure the desired channel is selected on the Telis4 before programming. The programming LED on the Centralis will blink indicating the transmitter has been memorized.

4. Operate each motor in the DOWN direction using the radio transmitter.

5. The motorized treatment should move down or out. If this is incorrect, turn off the circuit breakers and reverse the red and black wires of the motor.

Operating Procedures

TRANSMITTER

1. Pressing the UP button on the Telis transmitter will move the window treatment up or in. The DOWN button will move the treatment down or out.
2. To stop the motorized treatment at any time, press the CENTER button on the transmitter.
3. To reach one of the intermediate positions, the awning or rolling shutter must first be at the upper or lower limit, and stopped. Pressing the center button on the transmitter will move the window treatment to the dedicated position.

LOW VOLTAGE SWITCH

4. If desired, a single pole, single throw switch can be connected to the low voltage terminals as indicated above. Each press of the switch will sequence through the directions as follows;

DEPRESS 1	UP DIRECTION
DEPRESS 2	STOP
DEPRESS 3	DOWN DIRECTION
DEPRESS 4	STOP

PROGRAMMING PROCEDURES

RECORDING THE INTERMEDIATE POSITION FROM THE TOP OF THE WINDOW TREATMENT
- Bring the window treatment to its upper limit using the Telis transmitter. Press the DOWN and CENTER buttons simultaneously until the awning begins to move, then release.
- Stop the window treatment at the intermediate position desired. Press the CENTER button for 2 seconds to memorize that position.

RECORDING THE INTERMEDIATE POSITION FROM THE BOTTOM OF THE WINDOW TREATMENT
- Bring the motorized treatment to its lower limit. Press the UP and CENTER buttons simultaneously until the awning begins to move, then release.
- Stop the window treatment at the position desired. Press the CENTER button for 2 seconds to memorize that position.

DELETING AN INTERMEDIATE POSITION
- Briefly press the CENTER button of the Telis transmitter to reach the desired intermediate position.
- Continue to press the CENTER button for 10 seconds until the programming LED on the Centralis Receiver stops blinking. That position is now deleted.

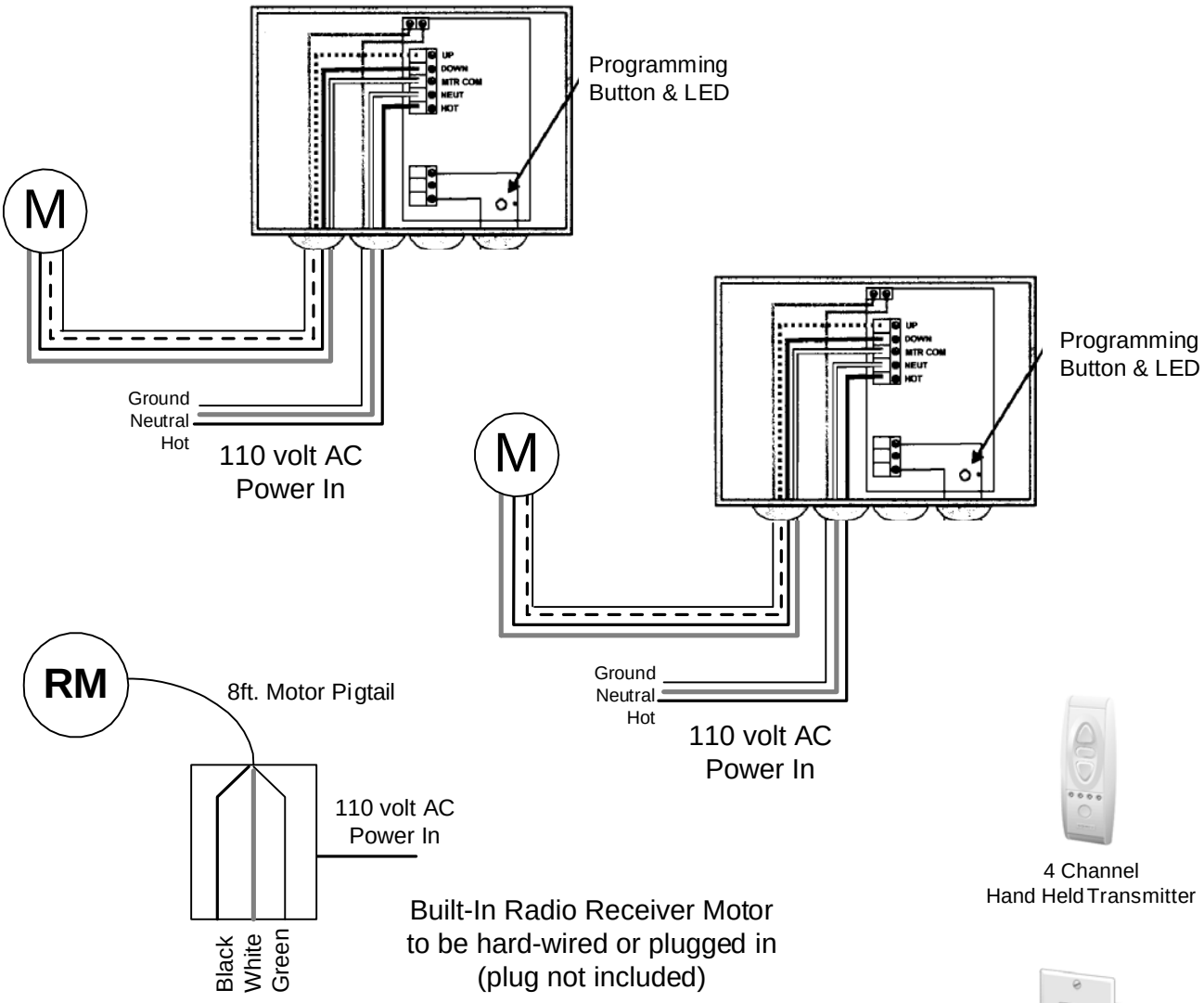
TO ADD A NEW TRANSMITTER TO THE MEMORY OF THE RECEIVER
- Press the programming button, for more than 2 seconds, on a transmitter that is already memorized by the Centralis Receiver to wake up the receiver. The programming LED on the Centralis will light. Press the programming button on the new transmitter to attach it to the Centralis Receiver.

TO REMOVE A TRANSMITTER FROM THE MEMORY OF THE RECEIVER
- Press the programming button on the Centralis Receiver until the LED lights. Quickly press the programming button on the transmitter you want to remove.

TO REMOVE ALL TRANSMITTERS FROM THE MEMORY OF THE RECEIVER (Resetting of the Centralis Receiver)
- Press the programming button of the Centralis Receiver until the LED blinks. This removes ALL memorized transmitters.

Radio Remote Control Systems

Three Motors with Centralis Receivers and Built-In Radio Receiver Motor
Individual and Group Operation via Transmitter and Wall Switch



RM — Built-In Radio Receiver Motor

M — Standard Motor

Ground (Green)

Directional (Black)

Directional (Red)

Common (white)

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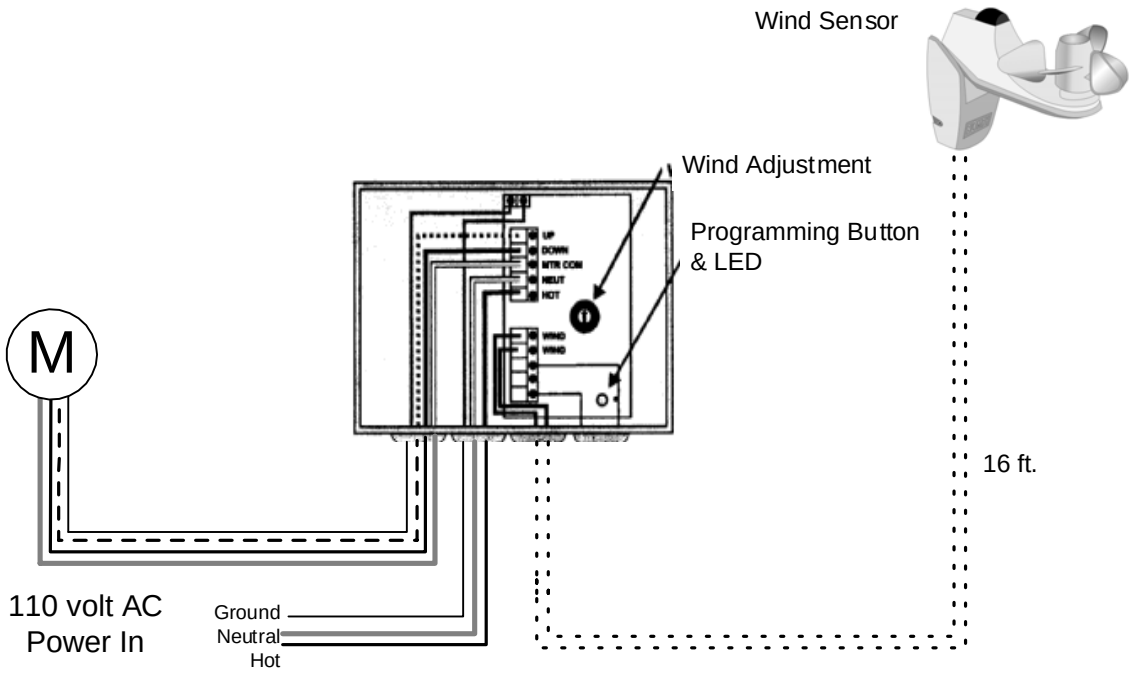
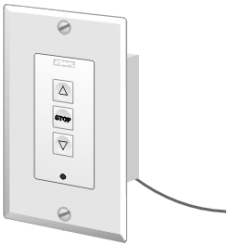
Radio Remote Control Systems

One Motor with Eolis Receiver and Wind Sensor with Individual Operation via Transmitter or Wall Switch



Single Channel
Hand Held Transmitter



Single Channel
In-Wall Wireless
Wall Switch

Single Channel
Surface Mount
Wireless Wall Switch

- M — Motor
- ——— Ground (Green)
- ——— Directional (Black)
- – – – – Directional (Red)
- ——— Common
- . . . . . Low Voltage Wire (18 gauge)

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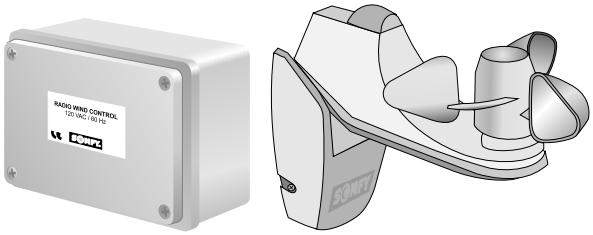
EOLIS RECEIVER

Inteo Wind - Remote

Installation and Operating Instructions

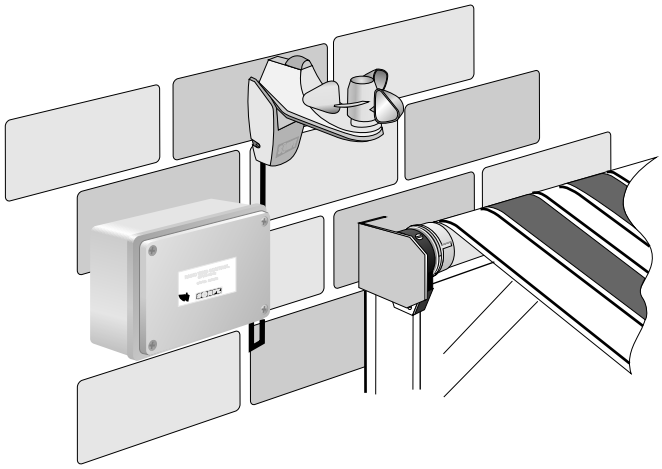
DESCRIPTION



Catalog No: 6301022

The Somfy Eolis Receiver is a single motor control designed for residential use. It includes an integrated radio receiver, wind sensor and low voltage switch inputs. Wind speed is continuously monitored, triggering the control to retract awnings or shutters automatically as needed. Using the Telis Transmitters, it is possible to operate the controls individually or in groups. Two user-defined intermediate positions can be programmed. This new control is packaged in a weatherproof enclosure and includes watertight strain-relief fittings for wires entering the box.

INSTALLATION PROCEDURES



1. The Eolis Receiver should be mounted as close to the motor as possible. If mounted outside, ensure that the connections are facing down to avoid rain seepage. Avoid mounting the control against any metallic surface, as this may affect the radio reception.
2. Connect high and low voltage wires according to the wiring diagram on the next page. It is recommended that the low voltage wiring is done first, for easier access to the terminals. Make sure to use included watertight strain relief fittings to maintain the weatherproofing of the enclosure.
3. The wind sensor should be placed close to the awning or shading system to make sure the wind speed is measured at the product. Guard against installing the wind sensor too close to an obstruction such as a chimney, gutter or the window treatment itself, which could block the wind and cause erroneous sensor readings. The sensor should not be more than 100 feet from the control. Remove the back cover of the sensor and connect the two-wire cable (included) from the terminals on the sensor to the terminals on the control. Refer to the diagram on the next page.
4. When using a low voltage switch, it should be located no more than 100 feet from the Eolis Receiver.

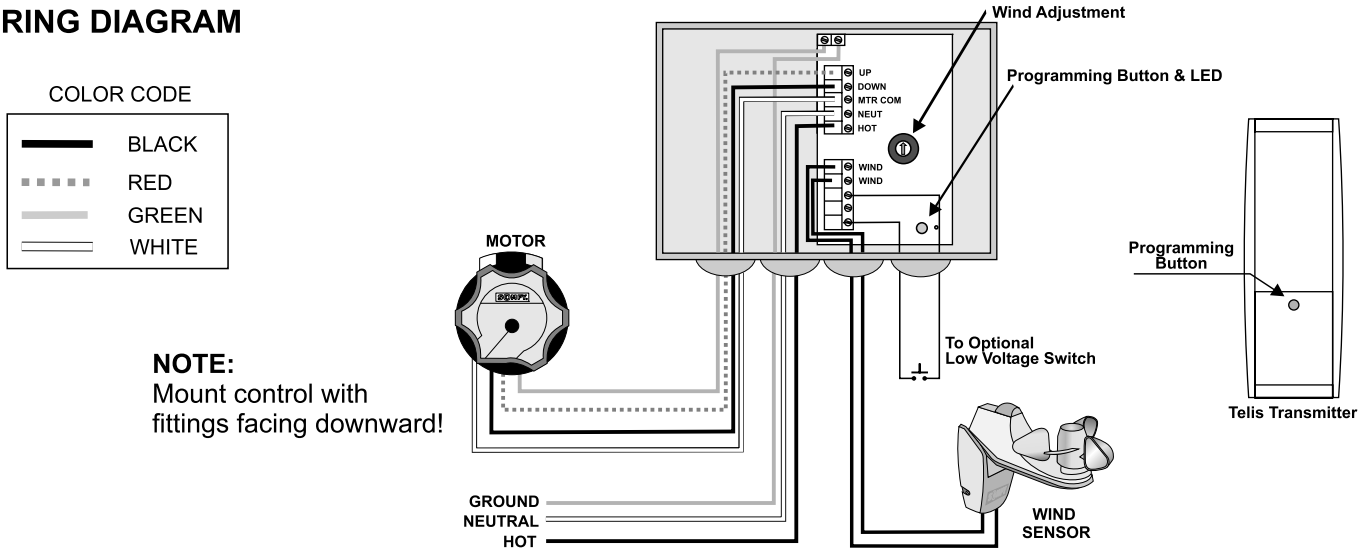
SOMFY CANADA
6315 Shawson Drive, Unit #1
Mississauga, Ontario L5T1J2

SOMFY SYSTEMS, INC.
47 Commerce Drive
Cranbury, NJ 08512

SOMFY MEXICO S.A. De C.V.
Calle 3 No.47, Loc.E-5
Fracc Ind. Alce Blanco
Nau.,Edo. de Mex C.P. 53370,Mex

CAT. NO: 2500022

WIRING DIAGRAM



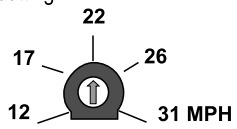
OPERATING INSTRUCTIONS

System Set Up

1. With power off, wire the Eolis Receiver as indicated above. Turn all circuit breakers on (motors should not move).
2. Set the Eolis Receiver into programming mode by pressing the programming button on the receiver until the LED lights (about 5 seconds).
3. Press the programming button on the Telis1 or Telis4 transmitter. Make sure the desired channel is selected on the Telis4 before programming. The programming LED on the Eolis Receiver will blink indicating the transmitter has been memorized.
4. Operate each motor in the DOWN direction using the radio transmitter.
5. The motorized treatment should move down or out. If this is incorrect, turn off the circuit breakers and reverse the red and black wires of the motor. **FAILURE TO CORRECT THIS ERROR WILL CAUSE AWNING TO EXTEND DURING WINDY CONDITIONS AND MAY CAUSE SERIOUS DAMAGE.**

Setting The Wind Level

1. To change the wind sensitivity, simply rotate the wind adjustment knob to the desired setting.



Wind Adjustment Detail

Operating Procedures

TRANSMITTER

1. Pressing the UP button on the Telis transmitter will move the window treatment up or in. The DOWN button will move the treatment down or out.
2. To stop the motorized treatment at any time, press the CENTER button on the transmitter.
3. To reach one of the intermediate positions, the awning or rolling shutter must first be stopped at the upper or lower limit. Pressing the center button on the transmitter will move the window treatment to the dedicated position.

LOW VOLTAGE SWITCH

4. If desired, a single pole, single throw switch can be connected to the low voltage terminals as indicated above. Each press of the switch will sequence through the directions as follows;
   - DEPRESS 1 UP DIRECTION
   - DEPRESS 2 STOP
   - DEPRESS 3 DOWN DIRECTION
   - DEPRESS 4 STOP

WIND FUNCTION

5. When the monitored wind speed is greater than the setting, the UP direction will activate after 2 seconds. As long as the wind speed remains high, all other commands will be ignored.
6. When the wind speed drops below the set value, the Eolis Receiver will return to normal operation following a one minute delay.

PROGRAMMING PROCEDURES

RECORDING THE INTERMEDIATE POSITION FROM THE TOP OF THE WINDOW TREATMENT
- Bring the window treatment to its upper limit using the Telis transmitter. Press the DOWN and CENTER buttons simultaneously until the awning begins to move, then release.
- Stop the window treatment at the intermediate position desired. Press the CENTER button for 2 seconds to memorize that position.

RECORDING THE INTERMEDIATE POSITION FROM THE BOTTOM OF THE WINDOW TREATMENT
- Bring the motorized treatment to its lower limit. Press the UP and CENTER buttons simultaneously until the awning begins to move, then release.
- Stop the window treatment at the position desired. Press the CENTER button for 2 seconds to memorize that position.

DELETING AN INTERMEDIATE POSITION
- Briefly press the CENTER button of the Telis transmitter to reach the desired intermediate position.
- Continue to press the CENTER button for 10 seconds until the programming LED on the Eolis Receiver stops blinking. That intermediate position is now deleted.

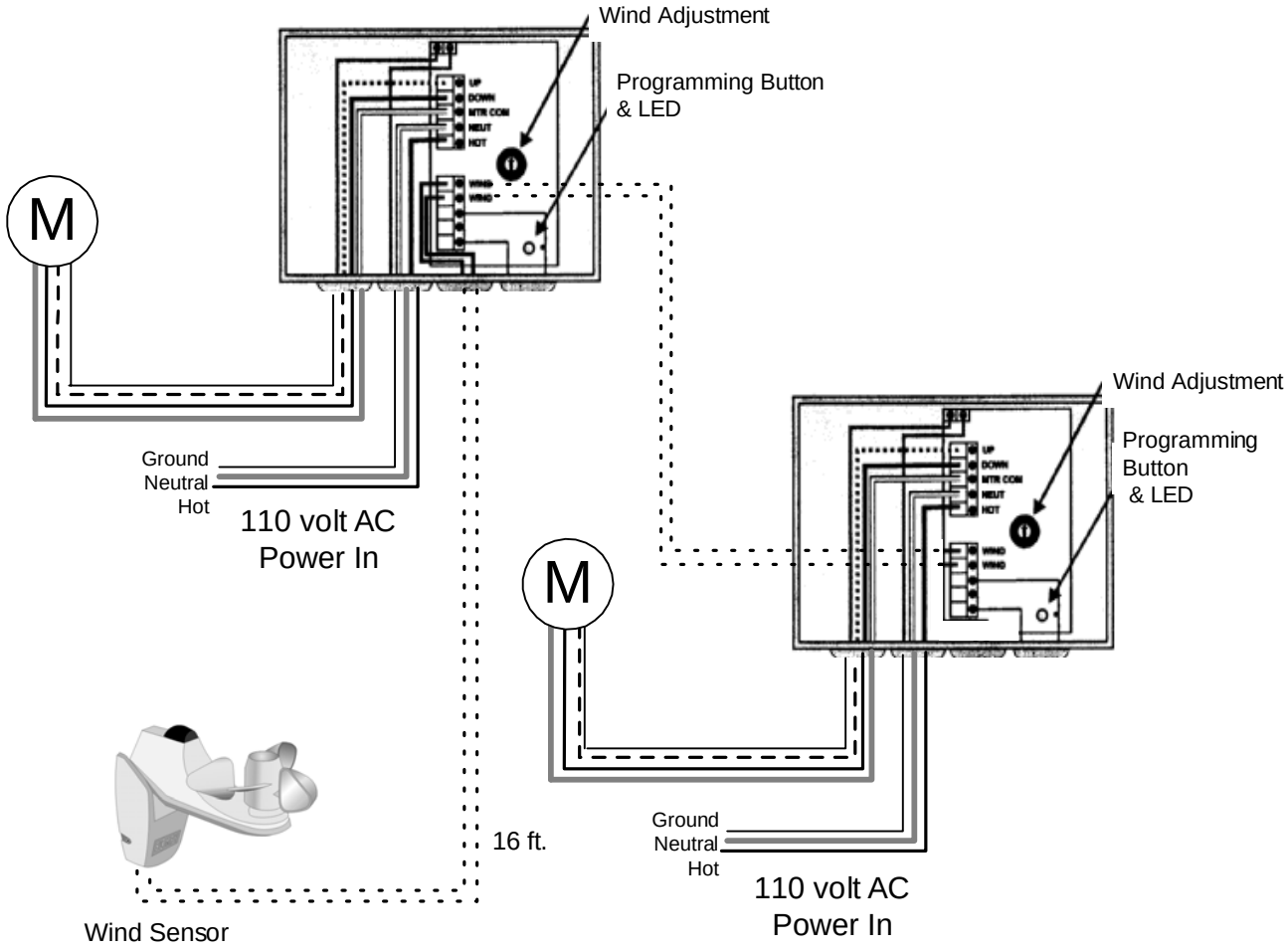
TO ADD A NEW TRANSMITTER TO THE MEMORY OF THE RECEIVER
- Press the programming button (for more than 2 seconds) on a transmitter that is already memorized by the Eolis Receiver to wake up the receiver. The programming LED on the receiver will light. Press the programming button on the new transmitter to attach it to the Eolis Receiver.

TO REMOVE A TRANSMITTER FROM THE MEMORY OF THE RECEIVER
- Press the programming button on the Eolis Receiver until the LED lights. Quickly press the programming button on the transmitter you want to remove.

TO REMOVE ALL TRANSMITTERS FROM THE MEMORY OF THE RECEIVER (Resetting of the Eolis Receiver)
- Press the programming button of the Eolis Receiver until the LED blinks. This removes ALL memorized transmitters.

Radio Remote Control Systems

Two Motors with Eolis Receivers and One Wind Sensor
Individual and Group Operation via Transmitter and Wall Switch



May use up to 7 Receivers to 1 Wind Sensor

- (M) Motor
- Ground (Green)
- Directional (Black)
- Directional (Red)
- Common
- Low Voltage Wire (18 gauge)

4 Channel
Hand Held Transmitter

4 Channel In-Wall
Wireless Wall Switch

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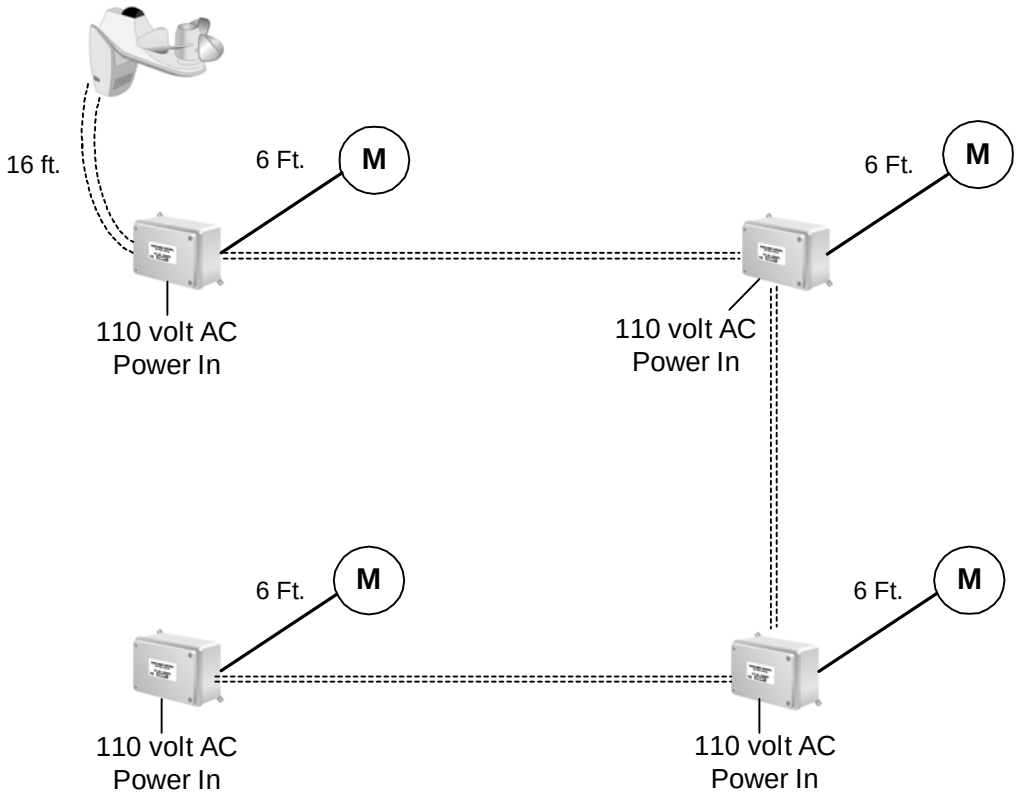
Radio Remote Control Systems

Four Eolis Receivers with Wind Control as Master and Individual Control via Transmitter or Wall Switch



Four Channel
Hand Held
Transmitter

Four Channel
Wireless Wall
Switch

Must get 110 volt AC power to each Eolis receiver

Ⓜ Standard Motor

Eolis Receiver

---------- Low Voltage 18 gauge wire between receivers

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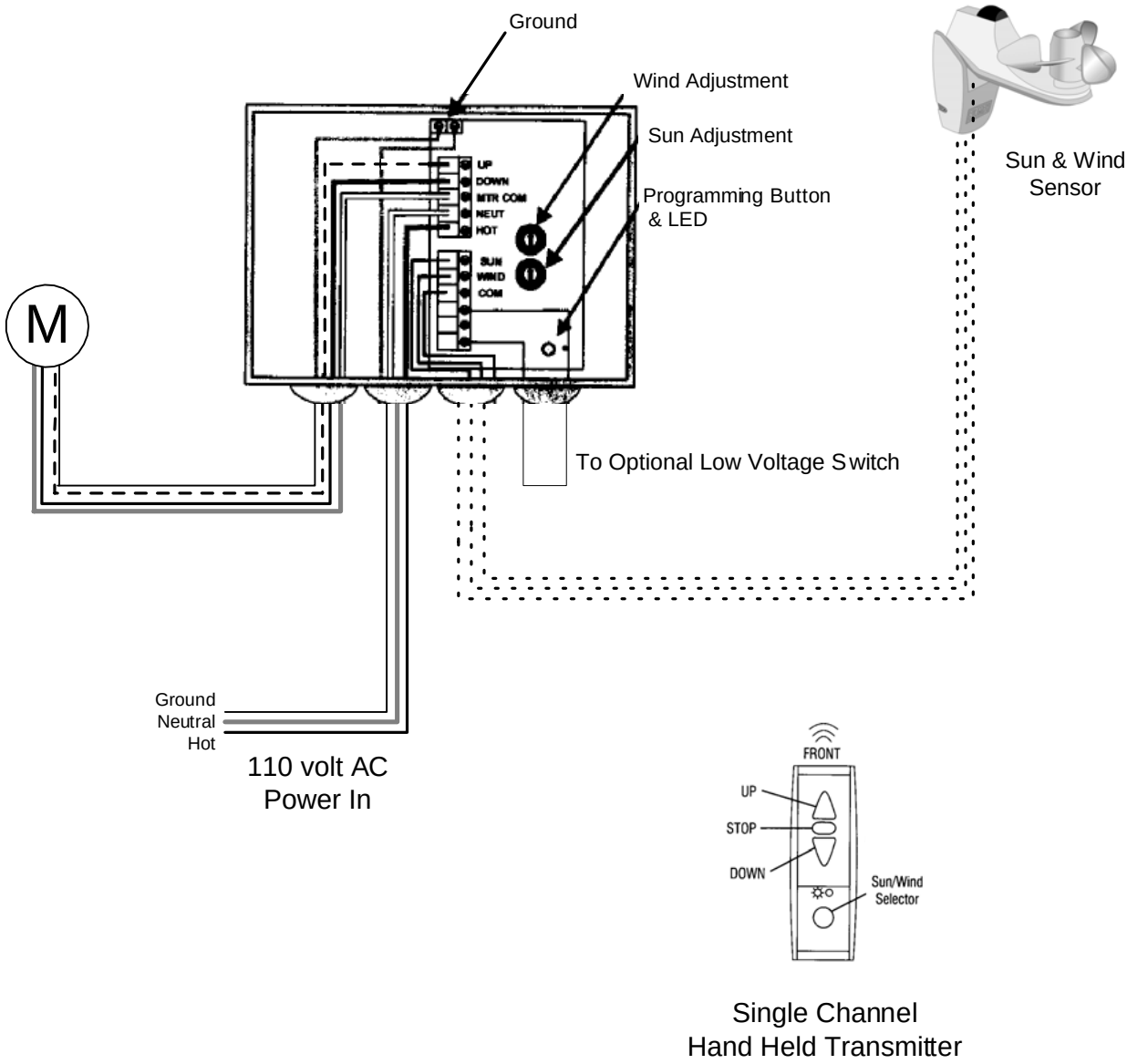
800-447-5534 / Fax 303-665-1209
www.insolroll.com

Radio Remote Control Systems

One Motor with Soliris Receiver and Sun & Wind Sensor
Individual Operation via Transmitter



Single Channel
Hand Held Transmitter

M	Motor
———	Ground (Green)
———	Directional (Black)
- - - -	Directional (Red)
———	Common
. . . . .	Low Voltage Wire (18 gauge)

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SOLIRIS RECEIVER

Inteo Sun & Wind - Remote

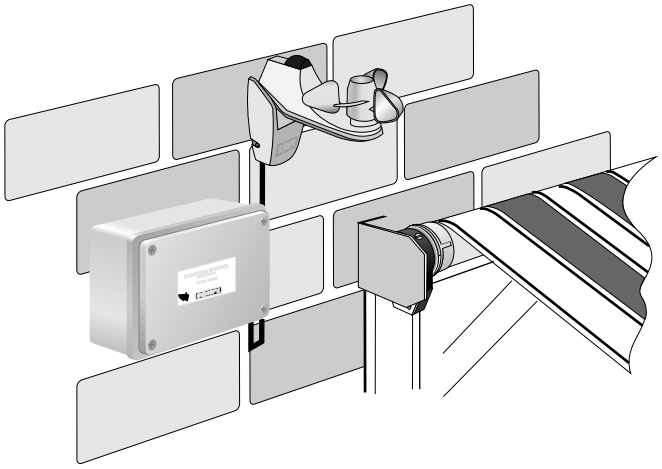
Installation and Operating Instructions

DESCRIPTION

Catalog No: 6301024

The new Somfy Soliris Receiver enables a motorized window treatment to provide shading from the sun and protection from the wind automatically and conveniently. The Soliris combined sun and wind sensor continually monitors sun intensity and wind speed, triggering the control unit to extend or retract an awning as needed. It includes an integrated radio receiver that makes it possible to operate the controls individually or in groups, using the Telis transmitters. Two user-defined intermediate positions can be programmed. This new control is packaged in a weatherproof enclosure and includes watertight strain-relief fittings for wires entering the box.

INSTALLATION PROCEDURES



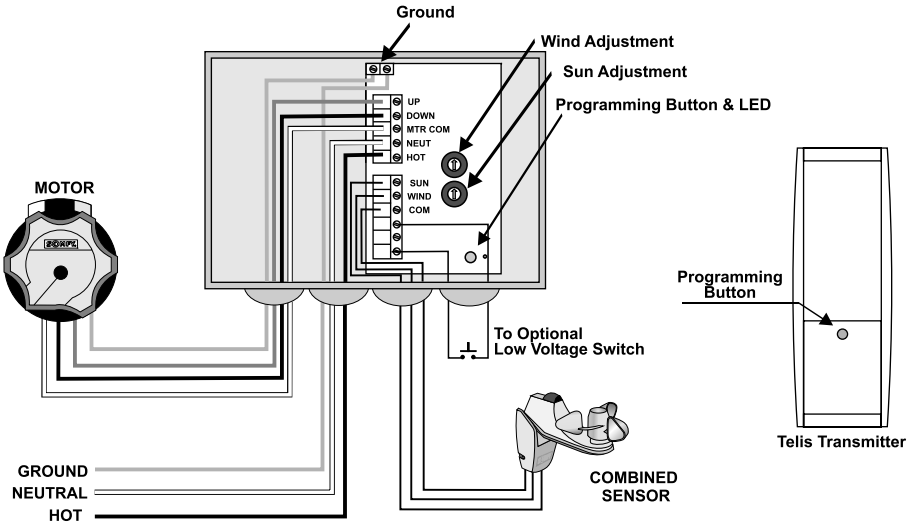
1. The Soliris Receiver should be mounted as close to the motor as possible. If mounted outside, ensure that the connections are facing down to avoid rain seepage. Avoid mounting the control against any metallic surface, as this may affect the radio reception.
2. Connect high and low voltage wires according to the wiring diagram below. It is recommended that the low voltage wiring is done first, for easier access to the terminals. Make sure to use included watertight strain relief fittings to maintain the weatherproofing of the enclosure.
3. The combined sensor should be placed close to the awning or shading system to make sure the wind speed is measured at the product. Guard against installing the wind sensor too close to an obstruction such as a chimney, gutter or the window treatment itself, which could block the wind and cause erroneous sensor readings. The sensor should also not be mounted in the shade or be obstructed by trees, to ensure accurate sunlight readings. The sensor should not be more than 100 feet from the control. Remove the back cover of the sensor and connect the three wire cable (included) from the terminals on the sensor to the terminals on the control. Refer to the diagram below.
4. When using a low voltage switch, it should be located no more than 100 feet from the Soliris Receiver.

WIRING DIAGRAM

COLOR CODE

BLACK	
RED	
GREEN	
WHITE	

NOTE:
Mount control with fittings facing downward!



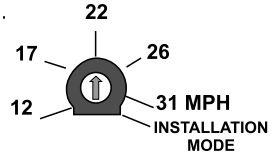
OPERATING INSTRUCTIONS

System Set Up

1. With power off, wire the Soliris Receiver as indicated on the previous page. Turn all circuit breakers on (motors should not move).
2. Set the Soliris Receiver into programming mode by pressing the programming button until the LED lights (about 5 seconds).
3. Press the programming button on the Telis1,Telis4 or Telis Soliris transmitter. The programming LED will blink indicating the transmitter has been memorized.
4. Operate each motor in the DOWN direction using the radio transmitter.
5. The motorized treatment should move down or out. If this is incorrect, turn off the circuit breakers and reverse the red and black wires of the motor. **FAILURE TO CORRECT THIS ERROR WILL CAUSE DAMAGE TO AWNING BY EXTENDING IT DURING WINDY CONDITIONS.**

Setting The Wind Level

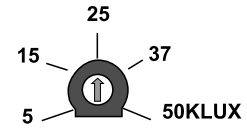
1. To change the wind sensitivity, simply rotate the wind adjustment knob to the desired setting. At the Installation Mode setting, all time delays are reduced.



Wind Adjustment Detail

Setting The Sun Level

1. To change the sun sensitivity, simply rotate the sun adjustment knob to the desired setting. **NOTE: DO NOT** set the sun level at the extreme minimum setting; this may cause the awning to extend when no sun is present.



Sun Adjustment Detail

Operating Procedures

TRANSMITTER

1. Pressing the UP button on the Telis transmitter will move the window treatment up or in. The DOWN button will move the treatment down or out.
2. To stop the motorized treatment at any time, press the CENTER button on the transmitter.
3. To reach one of the intermediate positions, the awning or rolling shutter must first be stopped at the upper or lower limit. Pressing the center button on the transmitter will move the window treatment to the dedicated position.
4. Pressing the SUN/WIND button on the Telis Soliris Transmitter will toggle between wind only and sun and wind operation. When the wind only function is selected, the Soliris Receiver will not activate according to the sun levels.

SUN FUNCTION

5. When the measured sun intensity is greater than the set level, a DOWN command is given after a 2 minute delay. If the upper intermediate position is set, the awning or shade will go to that position. Otherwise, it will go to the lower limit.
6. When the sun intensity falls below the set level, the awning will retract automatically after a 15 - 30 minute delay, assuming no wind present.

WIND FUNCTION

7. When the monitored wind speed is greater than the setting, the UP direction will activate after 2 seconds. As long as the wind speed remains high, all other commands will be ignored.
8. When the wind speed drops below the set value, the Soliris Receiver will extend the awning automatically after a 12 minute delay. However, a manual command can be given with the radio transmitter after only one minute.

LOW VOLTAGE SWITCH

9. If desired, a single pole, single throw switch can be connected to the low voltage terminals. Each press of the switch will sequence through the directions as follows;

DEPRESS 1	UP DIRECTION
DEPRESS 2	STOP
DEPRESS 3	DOWN DIRECTION
DEPRESS 4	STOP

PROGRAMMING PROCEDURES

RECORDING THE INTERMEDIATE POSITION FROM THE TOP OF THE WINDOW TREATMENT
- Bring the window treatment to its upper limit using the Telis transmitter. Press the DOWN and CENTER buttons simultaneously until the awning begins to move, then release.
- Stop the awning at the intermediate position desired. Press the CENTER button for 2 seconds to memorize that position.

RECORDING THE INTERMEDIATE POSITION FROM THE BOTTOM OF THE WINDOW TREATMENT
- Bring the motorized treatment to its lower limit. Press the UP and CENTER buttons simultaneously until the awning begins to move, then release.
- Stop the awning at the position desired. Press the CENTER button for 2 seconds to memorize that position.

DELETING AN INTERMEDIATE POSITION
- Briefly press the CENTER button of the Telis transmitter to reach the desired intermediate position.
- Continue to press the CENTER button for 10 seconds until the programming LED stops blinking.

TO ADD A NEW TRANSMITTER TO THE MEMORY OF THE RECEIVER
- Press the programming button (for more than 2 seconds) on a transmitter that is already memorized by the Soliris Receiver to wake up the receiver. The programming LED will light. Press the programming button on the new transmitter to attach it to the Soliris Receiver.
- **It is not recommended to store more than one Telis Soliris transmitter in the memory of the receiver.**

TO REMOVE A TRANSMITTER FROM THE MEMORY OF THE RECEIVER
- Press the programming button on the Soliris Receiver until the LED lights. Quickly press the programming button on the transmitter you want to remove.

TO REMOVE ALL TRANSMITTERS FROM THE MEMORY OF THE RECEIVER (Resetting of the Soliris Receiver)
- Press and hold the programming button of the Soliris Receiver until the LED blinks. This removes ALL memorized transmitters.

SOMFY CANADA
6315 Shawson Drive, Unit #1
Mississauga, Ontario L5T1J2

SOMFY SYSTEMS, INC.
47 Commerce Drive
Cranbury, NJ 08512

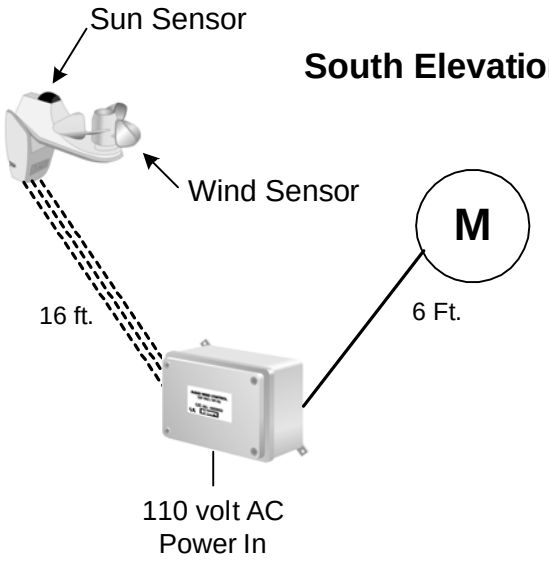
SOMFY MEXICO S.A. De C.V.
Calle 3 No.47, Loc.E-5
Fracc Ind. Alce Blanco
Nau.,Edo. de Mex C.P. 53370,Mex

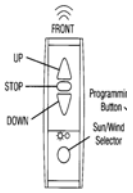
CAT. NO: 2500024A

Radio Remote Control Systems

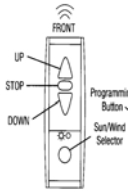
Two Soliris Receivers with Sun & Wind Control as Master per motor and Individual Control via Transmitter

South Elevation



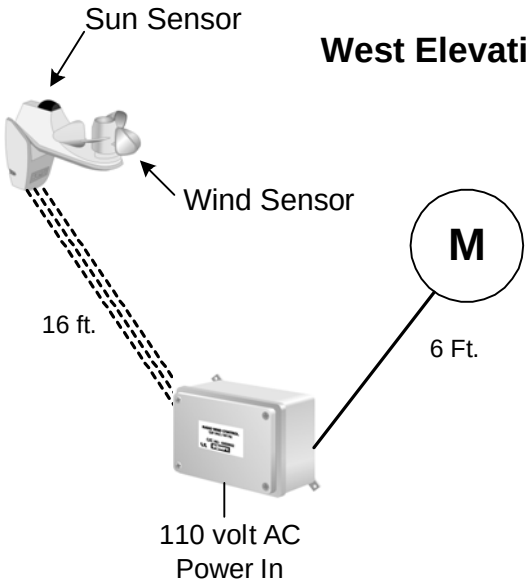


Single Channel Soliris
Hand Held Transmitter
(For south elevation)



Single Channel Soliris
Hand Held Transmitter
(For west elevation)

West Elevation



- One Sun and Wind Sensor needed per motor
- Customer may desire one transmitter per elevation if multiple elevations apply
- Must get 110 volt AC power to each Soliris receiver
- This is a typical hardwire application

(M) Standard Motor

Soliris Receiver

------ 18 gauge low voltage wire between receiver and Sun & Wind Sensor

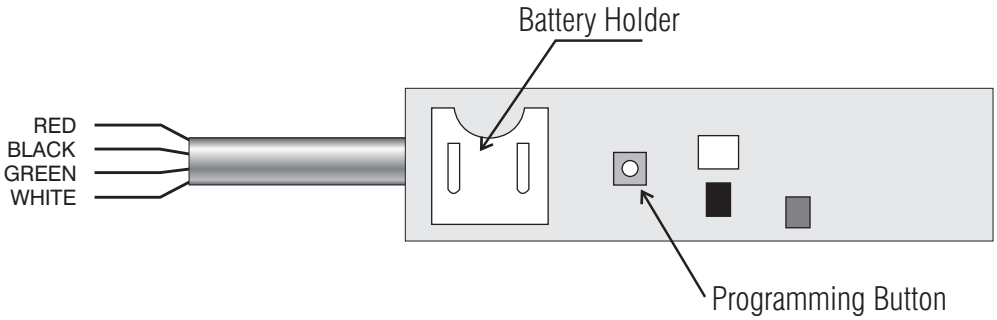
INSOLROLL INC.
WINDOW SHADING SYSTEMS

637 S. Pierce Ave., Louisville, CO 80027 USA
800-447-5534 / Fax 303-665-1209
www.insolroll.com

RTS DRY-CONTACT INTERFACE

Operating Instructions

The RTS dry-contact Interface (Catalog 6300454) can be used to communicate between home automation or other third party systems and SOMFY's RTS Motors and Inteo line of controls.



NOTE: Please Consult RTS Motor Instructions for Specific Product Details.

1. Place the RTS Motor in Programming Mode as described in the individual product operating instructions.
2. Press the programming button on the RTS Interface to program it in the memory of the RTS Motor.
3. To activate an UP command, a momentary contact (relay) closure is required between the WHITE and GREEN wires.
4. To activate a DOWN command, a contact closure is required between the BLACK and GREEN wires.
5. To activate a STOP command or Intermediate Position, a contact closure is required between the RED and GREEN wires.

SOMFY CANADA
6315 Shawson Drive, Unit #1
Mississauga, Ontario L5T1J2

SOMFY SYSTEMS, INC.
47 Commerce Drive
Cranbury, NJ 08512

SOMFY MEXICO S.A. De C.V.
Calle 3 No.47, Loc.E-5
Fracc Ind. Alce Blanco
Nau.,Edo. de Mex C.P. 53370,Mex

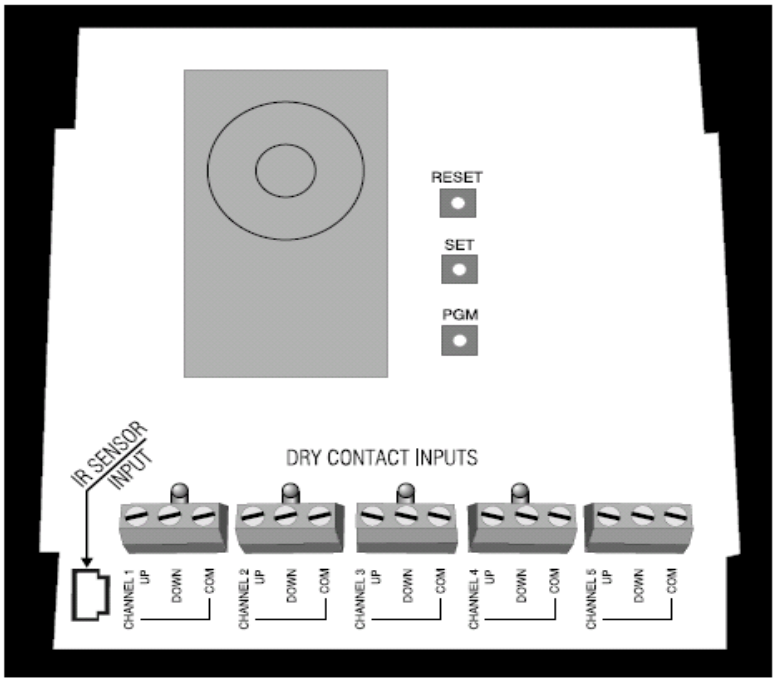
Insolroll 5 Channel RTS Interface Module (dry contact, RS232 or IR inputs)

DESCRIPTION

The 5 Channel RTS Interface (Catalog 6300554) can be used to communicate between home automation or other third party systems and SOMFY's RTS Motors and controls. It is capable of individual or group control, and can be operated via infrared remote, RS232 serial communication or dry contact inputs. Once an input is activated, an RTS radio command is sent to the automated window treatment.

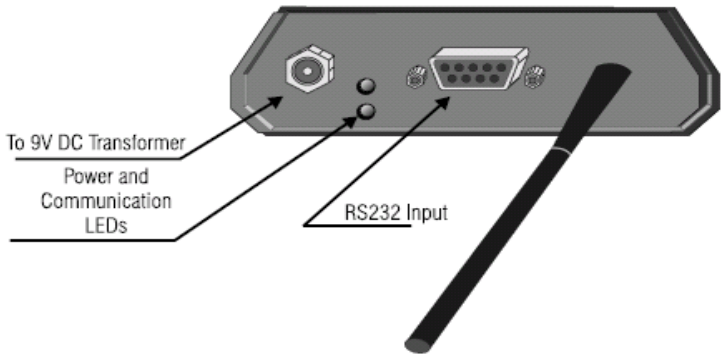
CONNECTION DIAGRAM

5 3/8"



5 1/8"

1 5/8"



1) Range is 65' to shades.
2) That number is deminished when the box is located anywhere near metal or steel.
3) 5 Channel RTS modules must be located 12" apart.

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WINDOW SHADING SYSTEMS

637 S. Pierce Ave., Louisville, CO 80027 USA
800-447-5534 / Fax 303-665-1209
www.insolroll.com

OPERATION

A. INITIAL SETUP

1. Connect a 9v DC transformer (included) to the plug on the top of the control box. The bottom LED will light to indicate power.
2. Be careful not to mount or enclose Interface on or in metal, as this may effect radio reception.
3. Set the RTS Receiver or motor into its Programming Mode. Refer to the installation instructions of the relevant RTS receiver or motor for this procedure. **NOTE: for initial programming provide power only to the motor or control being programmed.**
4. Select the channel to be memorized by pressing the SET button on the RTS Interface until the corresponding LED blinks. Briefly press the programming (PGM) button (1 sec. max). Channel 5 is indicated by all LED's blinking.
5. The RTS Receiver or motor will respond in its appropriate manor, as outlined in the specific operating instructions.
6. Repeat the steps above for each channel or product to be memorized.

B. DRY CONTACT INPUTS

1. Wire dry-contact relay outputs to the indicated terminals at the bottom of the RTS Interface control box.
2. To activate an UP command, a minimum 0.5 second closure is required between the UP and COM terminals. The top LED on the top of the control box will blink to indicate signal is sent.
3. To activate a DOWN command, a minimum 0.5 second closure is required between the DOWN and COM terminals.
4. To activate a STOP command, a closure is required between all three terminals.
5. **NOTE:** There needs to be a 1.5 second delay between successive commands.

C. INFRARED OPERATION

1. The RTS Interface is compatible with Somfy's Single & 8 Channel transmitters. Connect an infrared sensor to the indicated terminal on the bottom of the Interface control board.
2. Each individual motor is activated by first aiming the transmitter at the sensor and pressing the desired unit number on the transmitter and then pressing the UP or DOWN buttons. Press the center button to STOP the window treatment at any time.
3. **NOTE:** There needs to be a 1.5 second delay between successive directional commands or address ranges.

D. RS232 OPERATION

1. The Somfy RS232 interface uses the following communications settings: **1200 Baud, 8 Data Bits, 1 Stop Bit, No Parity**
2. The commands are as follows: (Case sensitive, ASCII)

U1	**S1**	**D1**	UP, STOP and DOWN commands for Unit 1
U2	**S2**	**D2**	UP, STOP and DOWN commands for Unit 2
U3	**S3**	**D3**	UP, STOP and DOWN commands for Unit 3
U4	**S4**	**D4**	UP, STOP and DOWN commands for Unit 4
U5	**S5**	**D5**	UP, STOP and DOWN commands for Unit 5

3. **NOTE:** There needs to be a 1.5 second delay between successive commands.

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