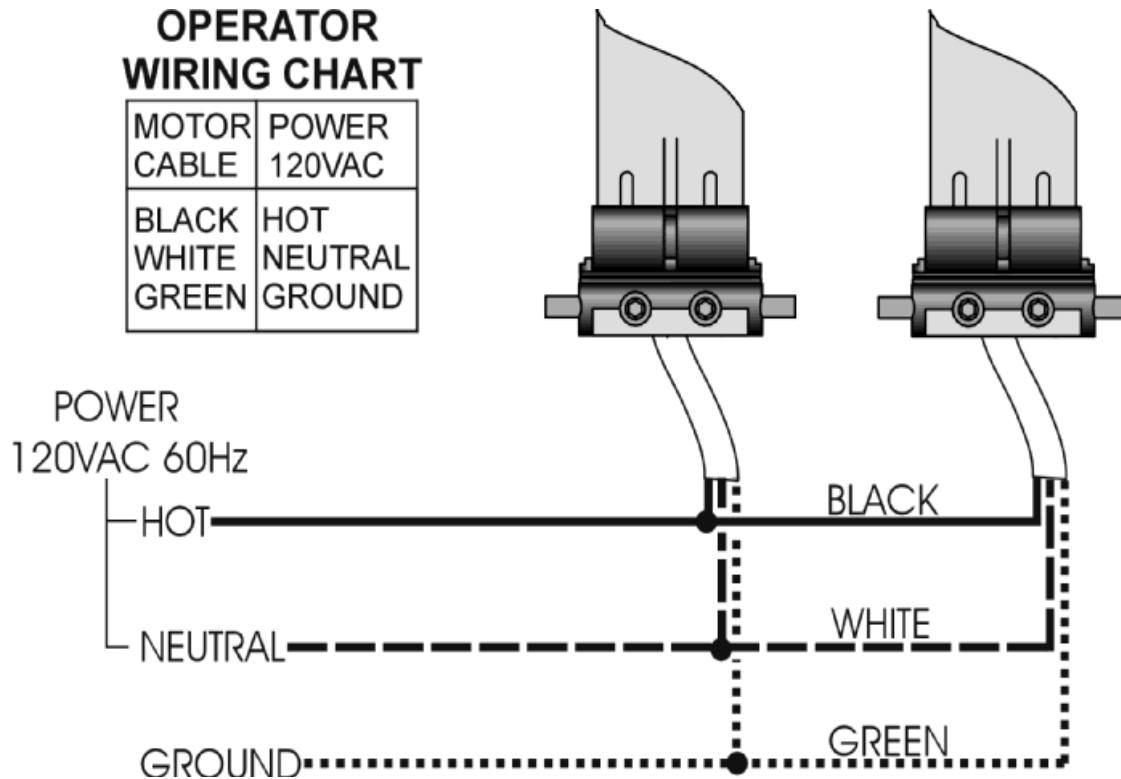


Insolroll Motor with Built-In Radio Remote Receiver

OPERATOR WIRING CHART

MOTOR CABLE	POWER 120VAC
BLACK	HOT
WHITE	NEUTRAL
GREEN	GROUND



-Attachment of a three-prong AC plug allows motor to be operated by plugging it into a standard outlet

-All wiring must conform to the National Electrical Code and local codes

-The operator can be wired in parallel (unlike normal AC tubular motors)

It is recommended that provisions be made to cut power individually when wiring motors with built-in radio receivers. This can be in the form of an inline off/on switch, a disconnect plug, or access to the operator cable for use of an installers power cable with off/on switch. The ability to cut the power to each motor individually is required to easily program the receiver in the operator

-Mount motor heads at least 18 inches from each other to prevent RF interference

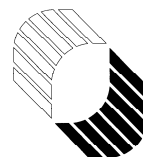
-Always install the power cable with a drip loop to prevent water penetration

-Each motor has 14 capable addresses

-Individual, sub-group and all operation can be accomplished

-The motor has a built-in thermal cut-off. Allow motor to cool for approx. 20 minutes if you cannot get motor to run in either direction

-Battery: 3V Lithium CR 2430 in Transmitter



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WINDOW SHADING SYSTEMS

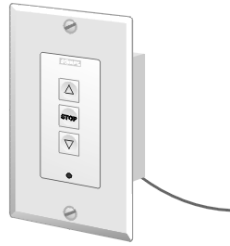
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www.insolroll.com

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

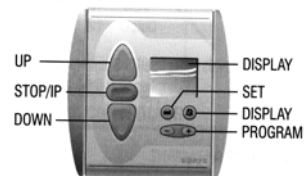


Single Channel
Surface Mount
Wireless Wall Switch

- 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

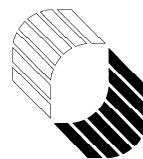
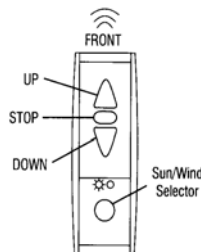
Radio Remote Control with Chronis Timer

- 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

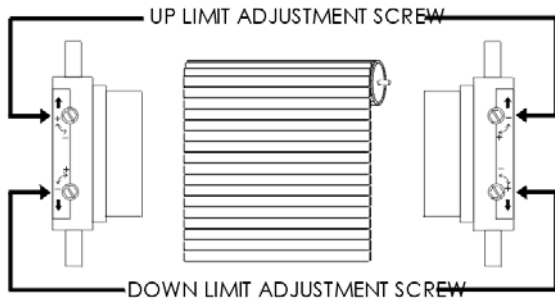


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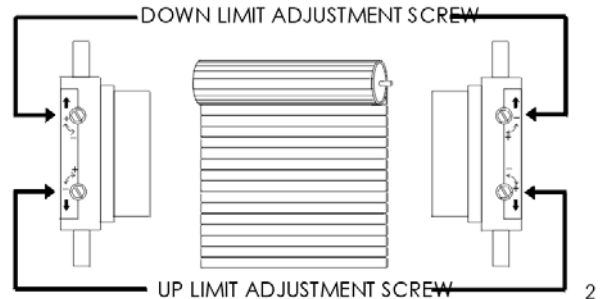
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Insolroll 110 Volt Tubular Motor Limit Switch Adjustment Instructions

Material rolls down on same side as limits

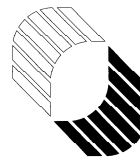


Material rolls down on opposite side as limits



- 1) Identify which limit adjustment screw controls the up limit and which controls the down limit (see above diagrams). It is important to note arrows by the limit adjustment screw refer to the tube's rotation. Thus if the material comes off the tube on the back side and limit adjust screws face the front (as per diagram 2), the limit adjustment screw facing up controls the down limit and vice versa.
- 2) Turning an adjustment screw clockwise will increase the maximum travel in the direction that it controls, and turning it counterclockwise will decrease the maximum travel.
- 3) To set a limit, run the motor in the selected direction.
- 4) If the motor stops on its own before reaching the desired stop, turn the appropriate limit screw positive (clockwise). Every 2 to 3 turns of the adjustment screw will allow the motor to travel about 1 inch further. After every few turns of the limit adjustment screw, use the control switch to run the motor to the new limited position. (If the motor does not stop on its own before reaching the desired limit, go to step 6.)
- 5) When you are approximately at the desired limit position, use the control switch to run the motor away from the limit 2 to 3 feet, and then return to limit. This will allow you to see precisely where the limit is set. Make small adjustments and repeat.
- 6) If the motor does not stop on its own at least 6 inches before the desired limit position, stop the motor with the control switch. Then turn the adjustment screw in the negative (counterclockwise) direction. Confirm that the motor is stopped at the limit as per step 4 and 5. If the motor is not stopped at the limit, continue turning the limit adjustment screw **counterclockwise** (up to 120 turns may be required).

NOTE: The motor has a built in thermal cutoff. If after several minutes of use the motor will not run in either direction, allow the motor to cool down approximately 20 minutes.



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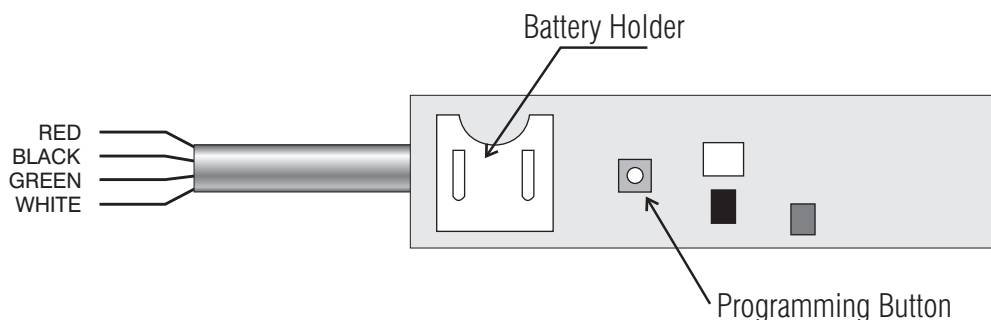
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RTS DRY-CONTACT INTERFACE

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.

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6315 Shawson Drive, Unit #1
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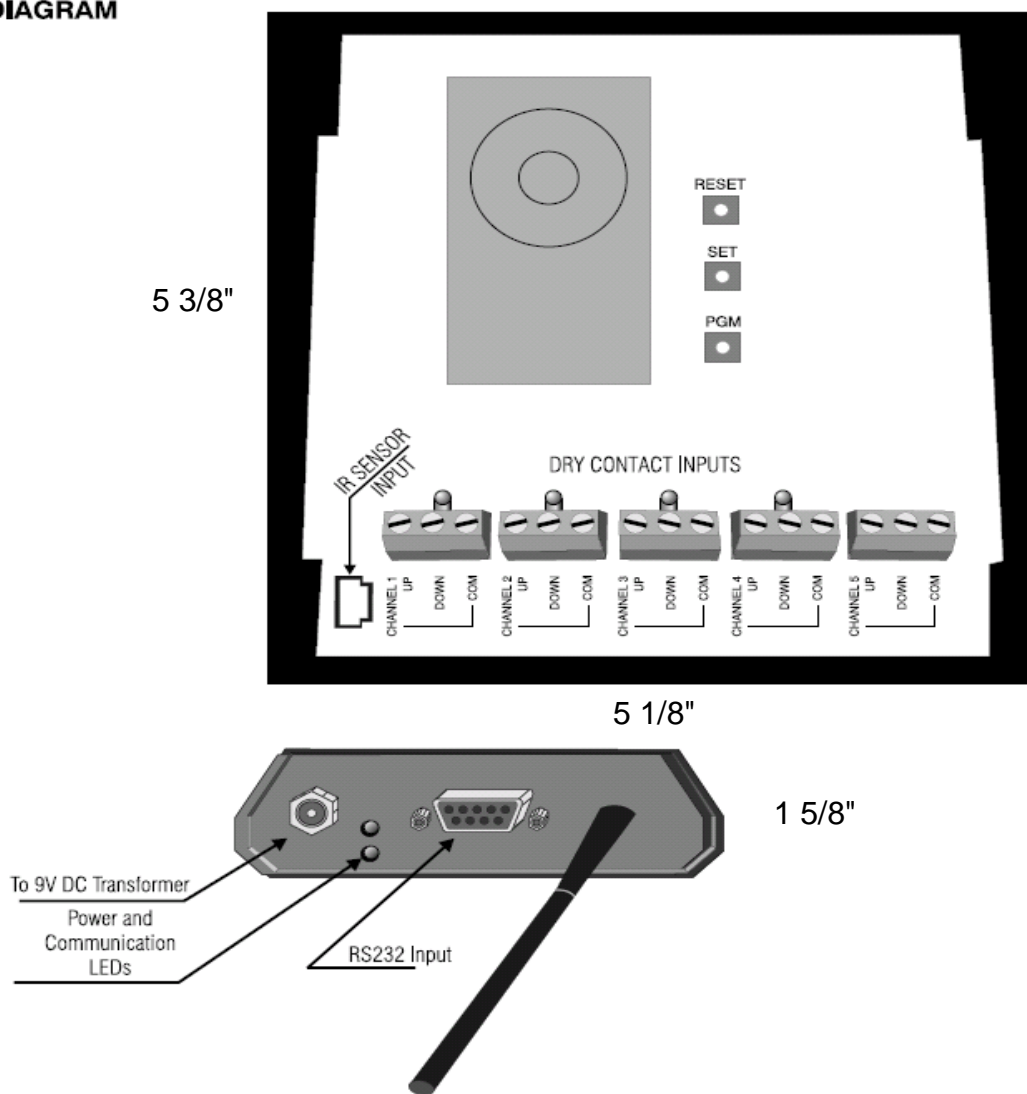
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Insolroll 5 Channel RTS Interface Module (dry contact, RS232 or IR inputs)

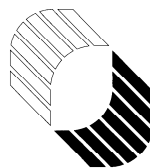
DESCRIPTION

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



- 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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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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