

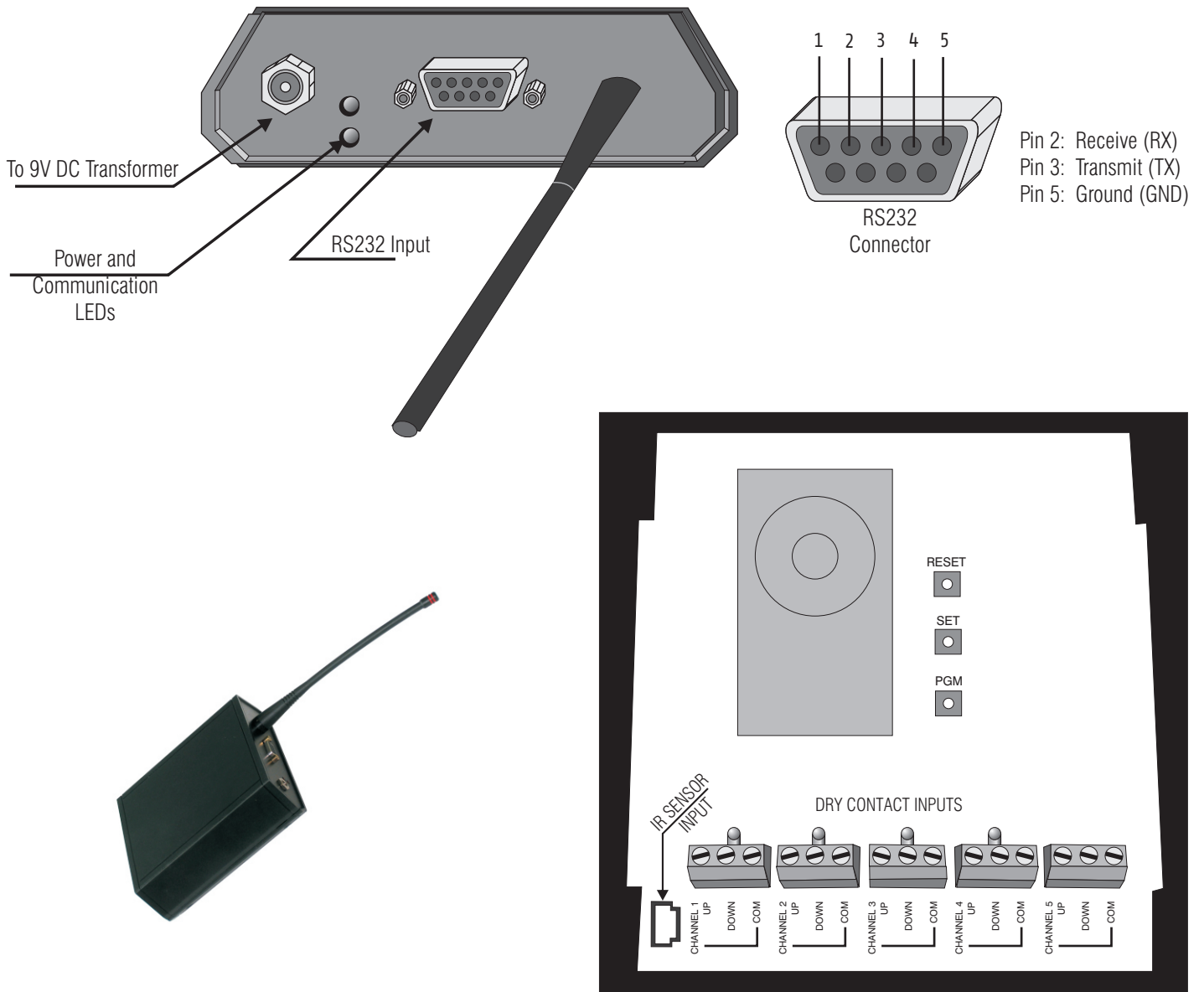
somfy® *UNIVERSAL RTS INTERFACE*

Operating Instructions

DESCRIPTION

The Universal RTS Interface (Part Number 1810506) 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



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

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

SOMFY MEXICO S.A. De C.V.
Temazcal 19-B, La Loma
Tlalnepantla, Edo de Mex.
54130, Mexico

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 programmed 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: **9600 Baud, 8 Data Bits, 1 Stop Bit, No Parity**
2. The commands are as follows: (Case sensitive, ASCII)

UX<cr>	UP command for Channel X	ex; U4<cr> will drive motor 4 UP
SX<cr>	STOP command	ex; S12<cr> will STOP motor 12
DX<cr>	DOWN command	ex; D57<cr> will drive motor 57 DOWN
TX<cr>	Enable TILT MODE	ex; T23<cr> will first STOP motor 23 (if moving) then enable TILT MODE for that motor.
OX<cr>	Tilt UP (open)	Tilt Mode must be enabled prior to sending this command. When this command is sent, the motor will tilt UP for a maximum of 10 seconds.
CX<cr>	Tilt DOWN (close)	Tilt Mode must be enabled prior to sending this command. When the command is sent, the motor will tilt DOWN for a maximum of 10 seconds.
WY<cr>	WAIT	The WAIT command is a time delay, where Y= 1 - 9, in ½ second increments.
MX<cr>	Enter PROGRAM MODE	ex; W4<cr> will create a 2 second delay Sending this command will put the MultiLink into Programming Mode. Once this command is sent, other programming features can then be accessed.

3. Examples

U1;U2;U3;U4;U5<cr>	This sequence will send each of the 5 motors UP, one at a time.
D1;w2;D2;W2;D3;W2;D4;W2;D5<cr>	This sequence will send each of the 5 motors DOWN, one at a time, separated by a 1 second delay.
U1;W8;W8;W4;S1<cr>	This sequence will send channel 1 UP for 10 seconds, then STOP
T4;O4;W6;S4<cr>	This sequence will enable Tilt Mode on Channel 4, then Tilt UP for 3 seconds and STOP
U2;W6;W6;T2;W4;O2;W4;S2;T2<cr>	This sequence will send Motor 2 UP for 6 seconds, STOP the motor and Enable Tilt Mode. After a 2 second delay, the motor will tilt UP for 2 seconds then STOP. Tilt Mode will then be disabled.
M1;W8;U1;W3;U1;W3;U1;W3;S1<cr>	This sequence will put the Multilink on Channel 1 into Programming Mode. Then Tilt will be enabled/disabled (UP 3 times). A delay is entered between each UP command to allow for motor jogging. Programming Mode is exited using the S1 command.