ZDMI INTERFACE

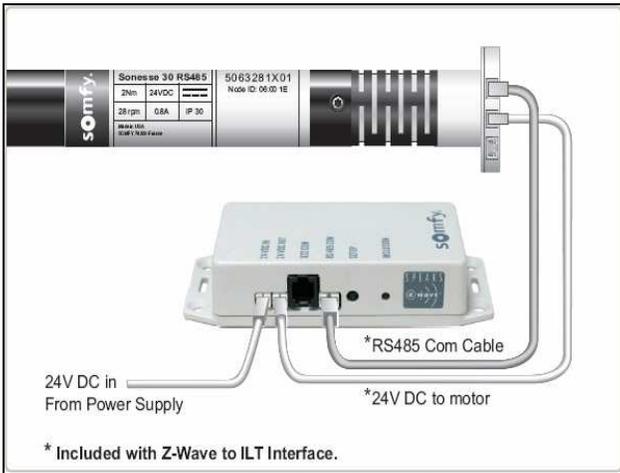**DESCRIPTION**

The Somfy Z-Wave Digital Motor Interface (ZDMI) is a Z-Wave routing device that resides as a node within a designated Z-Wave control network. It receives Z-Wave transmissions and converts them to motor control commands for Somfy's Sonesse 50 ILT2 (AC) motor and Sonesse 30 RS485 (DC) motor. The interface also receives feedback information from these motors and distributes it to the Z-Wave network.
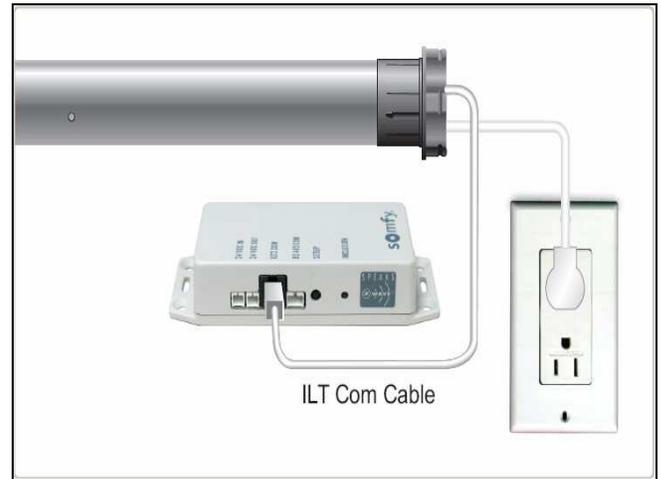
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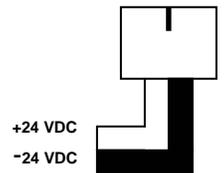
WIRING DIAGRAMS

Typical Sonesse 30 RS485 Motor Connection

Typical Sonesse 50 ILT2 Motor Connection

GENERAL REQUIREMENTS

- The Sonesse 30 Motor configuration is powered externally by +24VDC. Using the Power Cable (part no. 9016020) make sure that the white wire is on the left, and the black wire is on the right when plugged into the interface. Apply +24 VDC to the white wire, and -24 VDC to the black wire.

- The interface must be mounted within thirty (30) feet of each motor head and attached by a Com cable to its respective modular communication port.

GENERAL REQUIREMENTS CONT.

- The Sonesse 50 Motor configuration is powered by the ILT Com Cable once the motor is connected to 120V AC.

- One interface is used for each Somfy Sonesse 50 ILT2 and Sonesse 30 RS485 motor.

Z-WAVE CERTIFICATION

- This device is Z-Wave certified and will work with all Z-Wave certified controllers.
- This device supports the association command class to send unsolicited status reports to devices upon a change of state.
- The device supports 1 association group with up to 5 Z-Wave Node IDs.
- Upon a change of state the device will send both a Hail Command and a Basic Report to those Z-Wave node IDs listed in association group 1.

NETWORK SETUP

In order for the ZDMI to become fully operational, all connections must be properly made according to the wiring diagram, and the electronic limits of the motor must first be set. Please refer to the respective motor instructions on how to set the electronic limits.

Including the ZDMI into a Network

1. Upon power-up, the INCLUSION LED will illuminate for five (5) seconds then turn off. When the LED turns off, press the SETUP button to verify motor movement.

2. Select the inclusion command on your Z-Wave programmer or remote controller.

3. Press the SETUP button to include the ZDMI in the network. Verify that the INCLUSION LED stays illuminated when the interface is included in the network.

Excluding the ZDMI from a Network

1. Select the exclusion command on your Z-Wave programmer or remote controller.

2. Press the SETUP button to exclude the ZDMI from the network. Verify that the INCLUSION LED turns off.

OPERATION BY CONTROLLER

The ZDMI interface can be operated by 3rd party automation, handheld and PC based controllers, or by manually by pressing the SETUP button. The following convention is used when operating from either 3rd party automation or controllers:

- Light ON = Window Covering UP, Light OFF = Window Covering DOWN.

OPERATION BY CONTROLLER CONT.

- Light DIM & BRIGHTEN = Window Covering Opened Percentage where 0% = Window Covering CLOSED at its lower limit, and 100% = Window Covering OPEN at its upper limit.

- Lighting percentage values between 0% and 100% = 99 intermediate window covering positions.

MANUAL OPERATION

The SETUP button can be used to manually operate the motor at any time as follows:

1. With the motor at rest, pressing & releasing the SETUP button will send the motor to its upper or lower limit. Pressing & holding the SETUP button will send the motor in the up or down direction, then stop in position when the button is released. To adjust position in the same direction, press & hold the SETUP button again, then release the button when the desired position is reached.

2. While the motor is moving, press & release the SETUP button to reverse direction to its opposite limit. The SETUP button may also be pressed & held, then released at the desired position to stop the motor.

FACTORY RESET

Sonesse 30 RS485 Motor

1. Remove the 24VDC power from the Interface.

2. Press & hold the SETUP button while plugging the 24VDC power back into the Interface. Continue holding the SETUP button, and the INCLUSION LED begins to blink slowly then rapidly after 5 seconds.

3. Upon rapid blinking of the LED, release the SETUP button. The LED will remain off.

Sonesse 50 ILT2 Motor

1. Unplug the motor's communications cable from the Interface.

2. Press & hold the SETUP button while plugging the motor back into the Interface. Continue holding the SETUP button, and the INCLUSION LED begins to blink slowly then rapidly after 5 seconds.

3. Upon rapid blinking of the LED, release the SETUP button. The LED will remain off.

ZDMI ELECTRICAL SPECIFICATIONS

Voltage Input: Requires Regulated +24VDC.   Voltage Output: Regulated +24 VDC, passed through from the Input Voltage
Power Consumption: 50 mA @ 24VDC.

ORDERING INFORMATION

Description	Part Number	Description	Part Number
ZDMI Interface	1870171	24VDC Plug-in Wall Mount Transformer	1822209
Sonesse 30 RS485 Motor	1000658	24VDC Plug-in Table Top Transformer	1822116
Sonesse 50 ILT2 Motor (Star head)	1030094	Dry Contact Wall Switch (White)	1800219
Sonesse 50 ILT2 Motor (Round head)	1030077	Dry Contact Wall Switch (Ivory)	1800220
Power Cable (supplied)	9016020	Com Cable (supplied)	9016021

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