**somfy**®

DESCRIPTION

The Somfy Zigbee Digital Motor Interface (ZbMI) is a Zigbee routing device that resides as an endpoint within a designated Zigbee control network. It receives Zigbee transmissions and converts them to motor control commands for Somfy's line of ILT2 (AC) motors, and the Sonesse 30 RS485 (DC) motor. The interface also receives feedback information from these motors and distributes it to the Zigbee network.

Part No: 1870220

24 VDC IN

24 VDC OUT

ILT2 COM

RS 485 COM

SETUP

INCLUSION

somfy.

WIRING DIAGRAMS
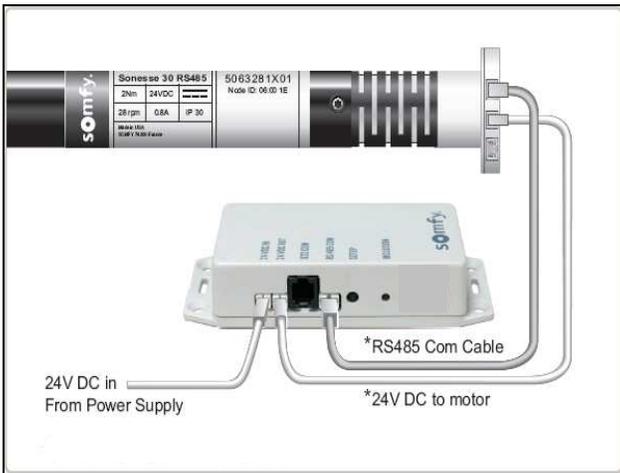
Typical Sonesse 30 RS485 Motor Connection
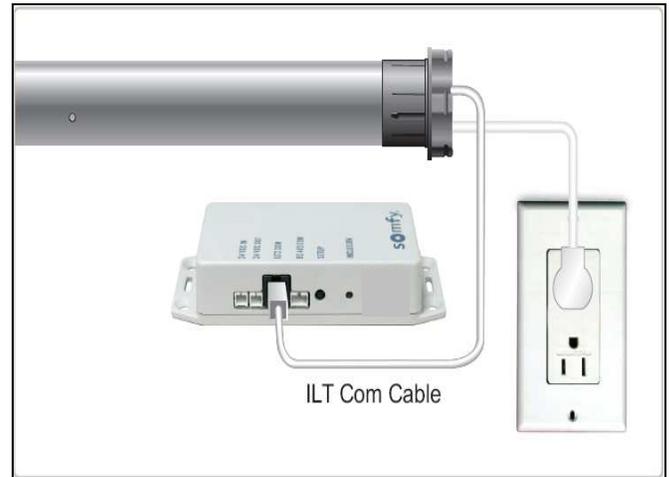
Typical ILT2 Motor Connection

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.

+24 VDC
-24 VDC

- 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.
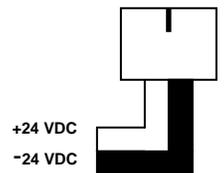
GENERAL REQUIREMENTS CONT.

- The ILT2 Motor configuration is powered by the ILT Com Cable once the motor is connected to 120V AC.

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

ZIGBEE CERTIFICATION

- Certification by the Zigbee Alliance is pending.

NETWORK SETUP

In order for the ZbMI 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.

Identifying the ZbMI into a Network

1. Upon power-up, the INCLUSION LED will turn on for five (5) seconds then turn off. When the LED turns off, press and release the SETUP button a few times to verify motor that the motor moves. This will indicate a good electrical connection between the ZbMI and the motor.

2. Select the IDENTIFY command on your Zigbee controller.

3. Press and hold the SETUP button for five (5) seconds to identify the ZbMI in the network. Verify that the INCLUSION LED turns on within 10-15 seconds. When the LED is on, the ZbMI is identified in the network.

Disconnecting the ZbMI from a Network

1. Select the DISCONNECT command on your Zigbee controller.

2. The ZbMI will be disconnected from the network when the INCLUSION LED turns off.

3. To manually disconnect the ZbMI from the network, press and hold the SETUP button for five (5) seconds. The ZbMI will be disconnected from the network when the INCLUSION LED turns off.

MANUAL OPERATION

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

1. Repeatedly pressing & releasing the SETUP button within ½ second will drive the motor in a sequence of UP-STOP-DOWN-STOP. For example, while the motor is at rest, press and release the SETUP button to drive the motor UP. Press and release the SETUP button again to STOP the motor. Pressing and releasing the SETUP button once more will drive the motor DOWN, and a subsequent press and release will 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 until the INCLUSION LED begins to flash.

2. Upon flashing of the LED, release the SETUP button. The LED will turn off to show that the ZbMI has been reset.

ILT2 Motor

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

2. Press & hold the SETUP button while plugging the communication cable back into the Interface. Continue holding the SETUP button until the INCLUSION LED begins to flash.

3. Upon flashing of the LED, release the SETUP button. The LED will turn off to show that the ZbMI has been reset.

ZbMI 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
ZbMI Interface	1870220	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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