ZbDMI — ZigBee™ to Digital Motor Interface

Item #: 1870220

OVERVIEW:

The **Somfy ZigBee™ Digital Motor Interface (ZbDMI)** 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 RS485 (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.

TECHNICAL SPECIFICATIONS:

- Input: Sonesse 30 RS485 motor Regulated 24 V DC; Sonesse 50 RS485 (AC) +5V DC
- Power Consumption: Sonesse 30 RS485 24V DC @ 50mA; Sonesse 50 RS485 (AC) 5V DC @ 20mA
- Material: ABS
- Dimensions: 5" L X 2" W X 1" H
- Maximum Range: ZigBee 75 feet radius
- Operating Temperature Range: Ambient Temperature
- Frequency: 2.4 GHz
- Shipping Weight: 1 lb.
- Control 4 Certified (Driver)
- Leviton Security Compatible

WHAT'S IN THE BOX:

- ZbDMI
- RS485 Patch Cable
- 24V DC Patch Cable
- Instructions

ZIGBEE CLUSTERS SUPPORTED:

- Basic
- Identify
- Groups
- Scenes
- On/Off
- Level Control
- Shades Configuration

OPTIONAL ACCESSORIES:

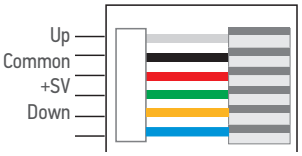
Power Patch Cable	9016020
RS485 Patch Cable	9016021
24V DC Plug-in Wall Mount Transformer	1822209
24V DC 2 Conductor Power Cable (7.5' Length)	9014794

FEATURES SUMMARY:

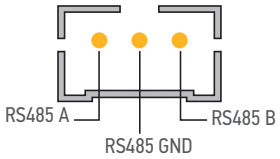
- Join a network with one button press
- Connects directly to the motor for power
- Provides accurate motor positional feedback
- Built on ZigBee HA 1.0 Stack

CABLE PINOUTS:

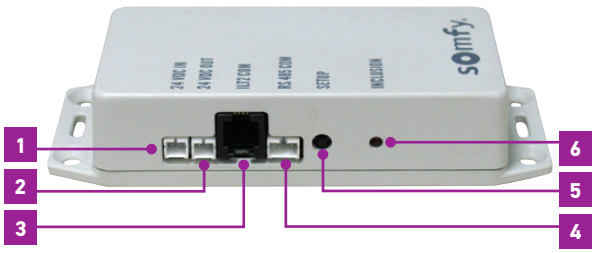
ILT2 COM (RJ9)



RS485 COM (3 position JST)



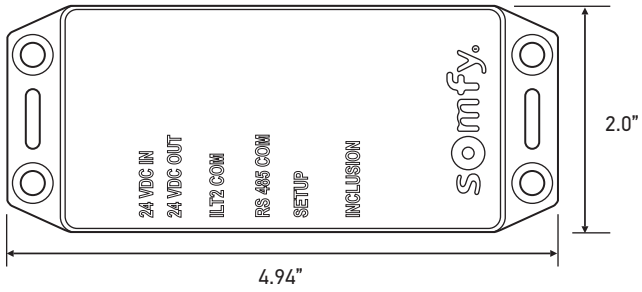
CONNECTIONS AND INDICATORS:



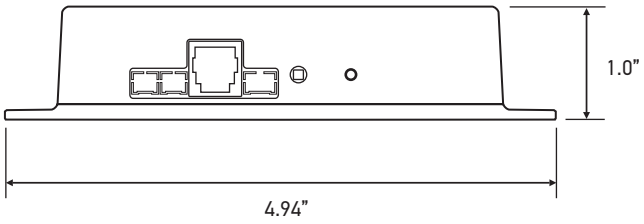
	ELEMENT	FUNCTION
1	**Power Input**	24V DC Power input
2	**Power Output**	24V DC Output to the motor
3	**ILT Motor Connection**	RJ9 Input for RS485 (AC) motor
4	**RS485 Connection**	RS485 Output to the motor
5	**Setup Button**	Identification into a ZigBee network; manual operation of the shade
6	**Inclusion LED**	OFF – not joined into a network; ON – joined a network

DIMENSIONS:

FRONT VIEW



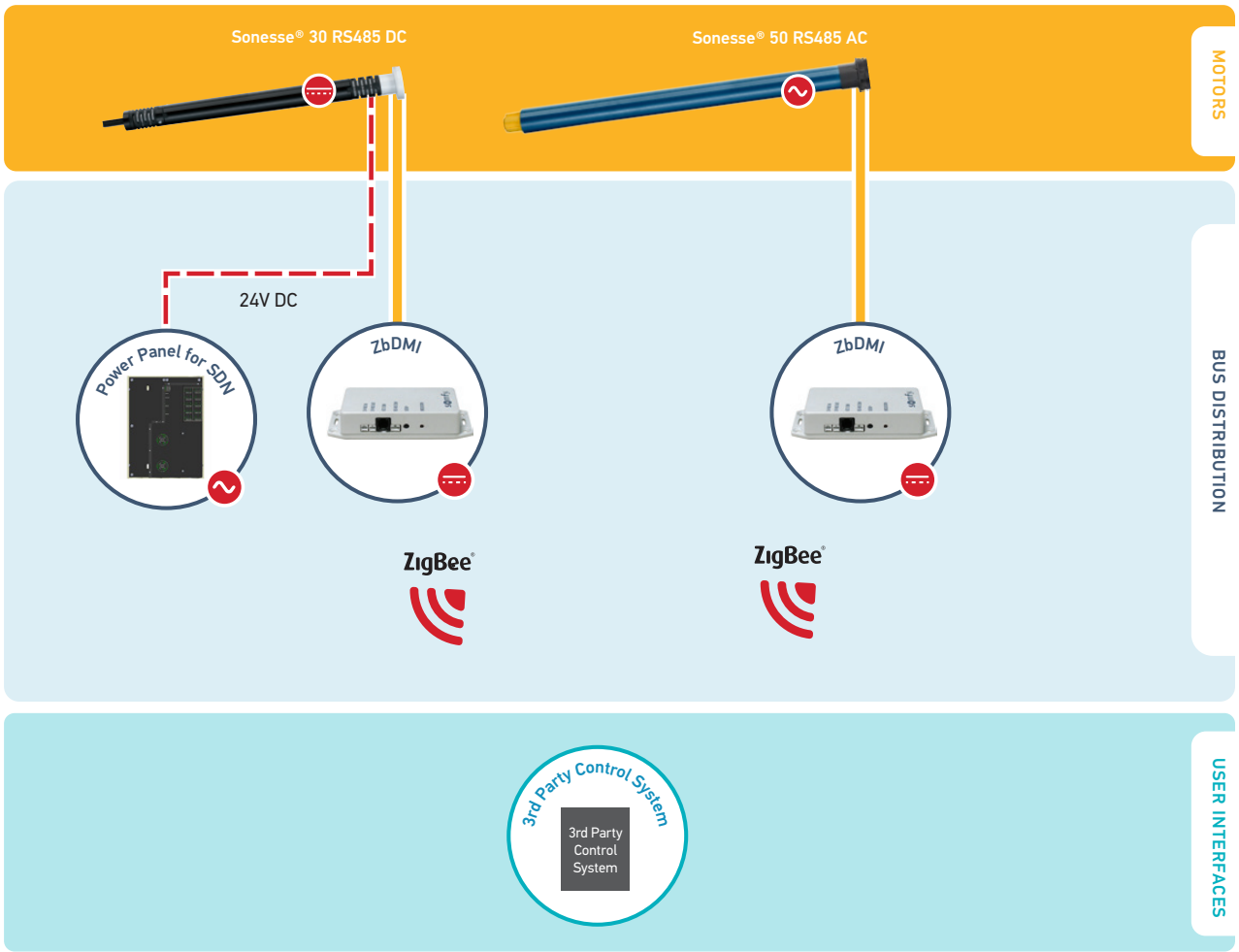
SIDE VIEW



BEST WIRING PRACTICES

The diagram shown below is meant for illustrative purposes to show the connections from product to product. This device could be used in other configurations than shown below.

Somfy does not recommend making custom cable with this device. Please ensure that the limits on the motor have been set and tested.



Copyright Somfy Systems, Inc. 8/2016