SDN Room Controller Hub

Item #: 1870278

OVERVIEW:

The **SDN Room Controller Hub** is a Somfy Digital Network™ (SDN) component which features 4 motor ports and 1 device port as an SDN room controller. This product is powered by line-voltage (AC) SDN RS485 motors using grey Somfy communication cables. The device port supports a maximum Wire Stub length of 200 ft. A Wire Stub is an extension of the bus segment which connects the Bus Line to the user interfaces, motors or integration devices. The Wire Stubs consist of any devices which split away from the main bus distribution line in a system. A connected device can include a keypad, Radio Technology Somfy® (RTS) receiver and line-voltage (AC) SDN RS485 motor.

SOMFY DIGITAL NETWORK SYSTEM OVERVIEW:

Somfy Digital Network (SDN) is Somfy's intelligent wired shading network. An SDN system is comprised of bus distribution devices that create a network for user interfaces, motorized applications and sensors to be connected. SDN is scalable, and suitable for both small and large projects, and the same components are used whether an SDN system remains standalone.

TECHNICAL SPECIFICATIONS:

- Power Input: 24V DC from line-voltage (AC) RS485 motors
- Power Consumption: 1 SDN Power Unit, 10 mA
- Material: ABS (Color: Bone)
- Operating Temperature Range: Ambient temperature
- Dimensions: 3.03" L x 2.09" W x 0.90" H
- Maximum Wiring Distance: 200 ft. per Device Port
- Shipping Weight: 1 lb.
- Indoor use only

FEATURES SUMMARY:

- Creates an isolated SDN room control of 4 motors using 1 device port. (SDN Power is provided by line-voltage (AC) motors using Grey motor cables)
- Wiring stub length up to 200 ft.
- Powered by the SDN RS485 motors using Grey Communication Cables
- Includes bus segment status LEDs for:
  - Power
  - Communication
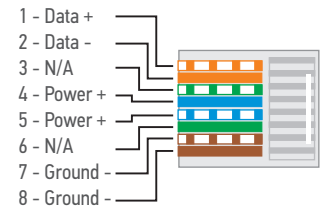 - End of line notification
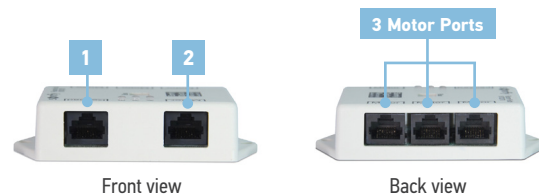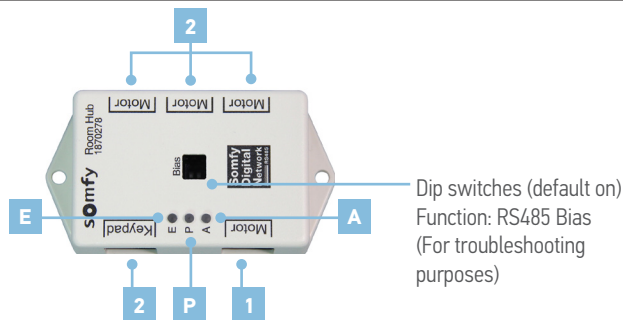- Uses RJ45 connectors

WHAT'S IN THE BOX:

- Room Hub

CABLE PINOUTS:

SDN Cable Pinout: (RJ45 connector)

ANSI/TIA/EIA 568-B Standard

1 - Data +
2 - Data –
3 - N/A
4 - Power +
5 - Power +
6 - N/A
7 - Ground –
8 - Ground –

CONNECTIONS AND INDICATORS:

Dip switches (default on)
Function: RS485 Bias
(For troubleshooting purposes)

Front view

3 Motor Ports

Back view

	ELEMENT	FUNCTION
1	Device Port	1 device port used to connect a DecoFlex Digital Keypad or RTS Receiver for SDN
2	SDN Motor Ports	Output for motor commands to a maximum of 4 RS485 motors

LED Indicators				
LABEL	ELEMENT	COLOR	FUNCTION ON	FUNCTION OFF
A	Data Activity	Green	Flashes when transmitting data	
P	Bus Power	Red	Power	No Power
E	End (end of line)	Yellow	End of Bus	Not End of Bus

somfy® Building happiness

DIMENSIONS:
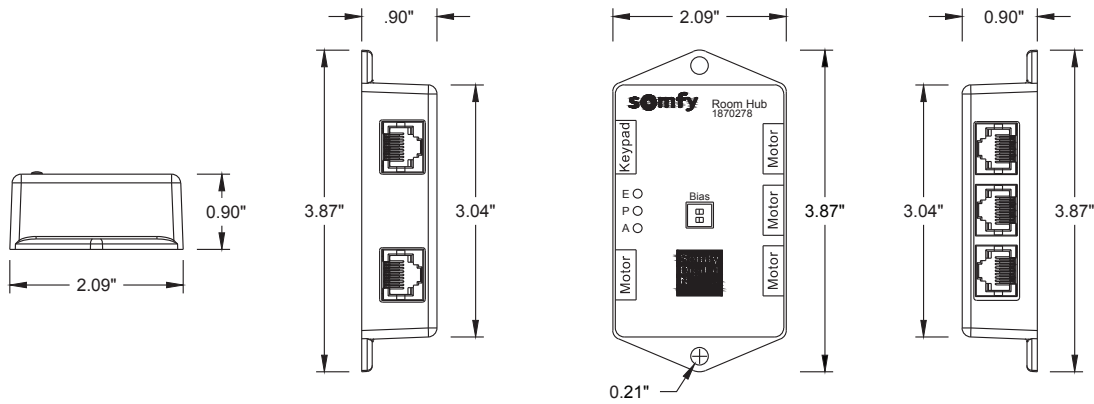
BEST WIRING PRACTICES

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. For specification information on individual products see related product information. Follow all SDN wiring standards for distance limitations.

- Creates an isolated SDN room control of 4 line-voltage (AC) RS485 motors using 1 device port and is powered using grey motor cables.
- Wiring stubs cannot exceed 200 ft.
- Integrate using dry contact inputs on back side of DecoFlex Digital Keypad for SDN.

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