

SDN Data Hub V2

Instructions

Item #: 1870951



I. General

- Indoor use only
- Plenum rated
- Uses RJ45 connectors
- Ambient operating temperature
- Dimensions: 4.66 in. L x 2.63 in. W x 1.33 in. H
(10.16 cm L x 6.68 cm W x 3.38 cm H)
- Patent pending
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II. Connections & Indicators

Connection Diagram

The diagram shown below is meant for illustrative purposes to show the connections from product to product. This device could be used in configurations other than those shown below. For specification information on individual products, see related product information. Follow all SDN wiring standards for distance limitations.

Cable Pinout

SDN Pinout
ANSI/TIA/EIA 568-B Standard

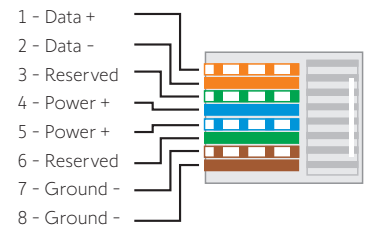


Diagram 1

Note: Example showing the data hub and connected devices powered by bus line

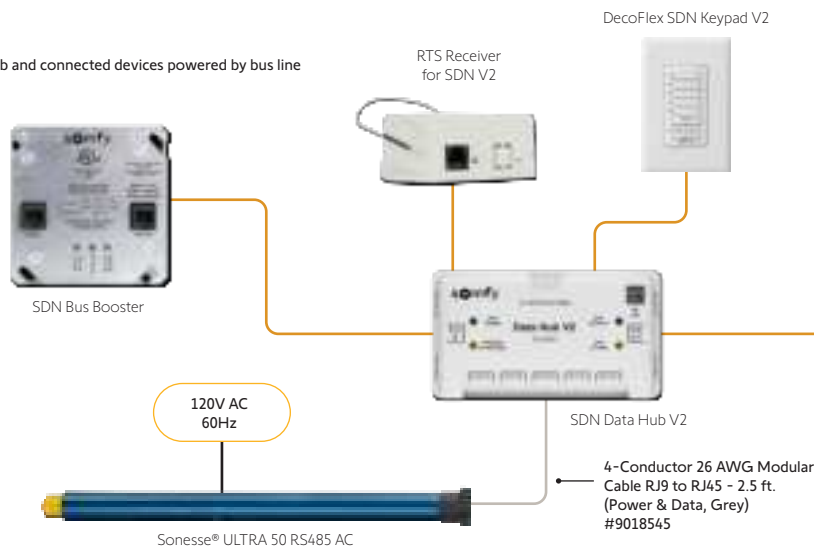
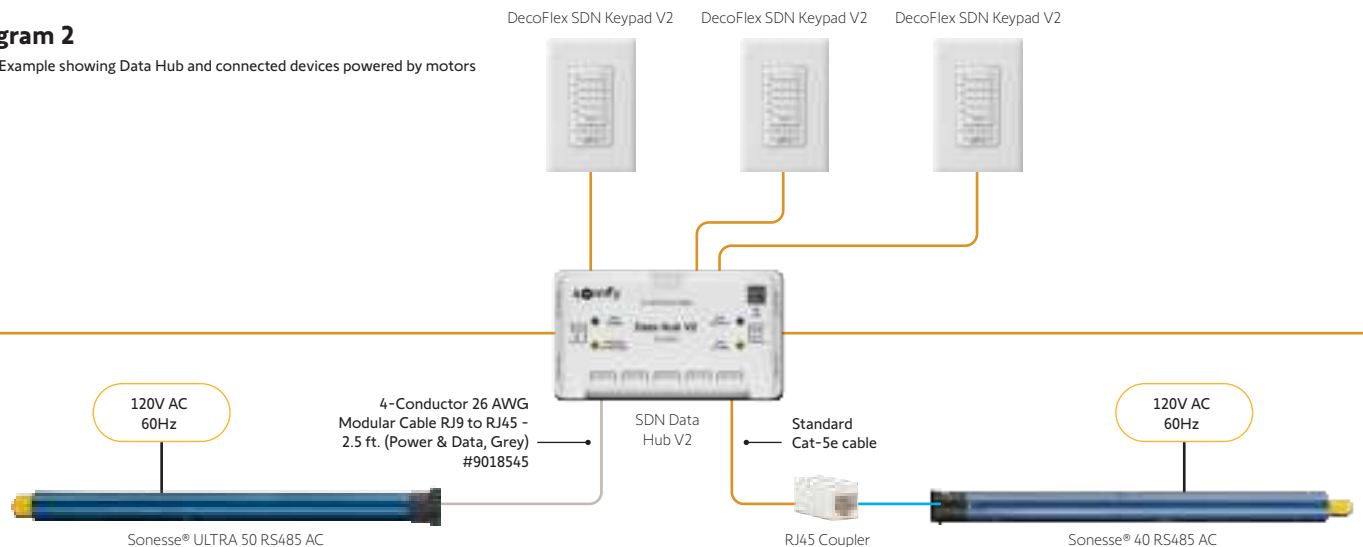


Diagram 2

Note: Example showing Data Hub and connected devices powered by motors

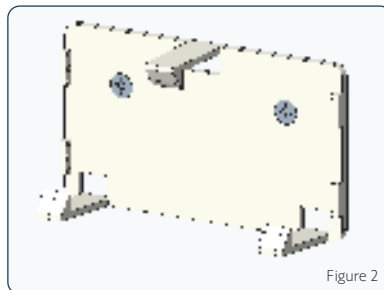
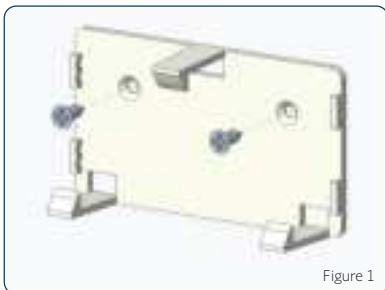


III. Motor and Device Compatibility

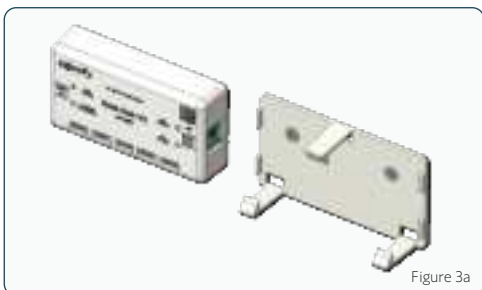
- Sonesse® 40 RS485 AC motors
- Backwards compatible with all RS485 AC motors
 - Note: Use 4-Conductor 26 AWG Modular Cable RJ9 to RJ45 - 2.5 ft. (Power & Data, Grey) #9018545 for connection to any data hub
- Decoflex SDN Keypads
 - Note: With two or more motors, two keypads can be powered
- RTS Receiver for SDN
 - Note: With two or more motors, one RTS Receiver can be powered

IV. Mounting Instructions

1. Find a suitable place to install the data hub mounting bracket.
 - NOTE: To prevent cable damage, avoid bending the Cat-5e wires beyond a 1 inch radius.
2. Use the two mounting screws provided to secure the mounting bracket (Figures 1 and 2).
 - NOTE: The mounting screws provided are suited for installing on sheet metal or wood. If you are mounting on another surface, please use a size 10 screw with a flat head.



3. The data hub can be installed from the sides or from the front.
 - Side Installation (Figure 3a): Installing from the sides is only possible if there are no wires connected to the data hub.
 - If connecting from the left or right side, simply slide it underneath the snaps until it clicks into place.
 - Front Installation (Figure 3b): If wires are connected to the device or bus ports, angle the bottom of the data hub into the two bottom snaps and push it until it snaps into place.



4. Removal
 - Pull up on the top snap and remove the data hub.
 - NOTE: Pull the top snap gently to avoid causing damage.

V. Troubleshooting

Bus Overview

Check that your SDN bus line falls within these requirements:

- The maximum wiring distance per bus power source is 2000 ft.
- The distance between two bus distribution devices does not exceed 2000 ft.
- One segment can support 40 bus distribution devices

Bus Activity LED is always lit on all bus distribution devices: Use standard process of elimination to isolate problem device/segment

Mis-wire Issues

Issues can stem from improper wiring. Before consulting the troubleshooting scenarios below, ensure that these common mis-wire mistakes have been double-checked and are not present in the installation:

- Pinouts incorrect: Follow the T-568B Standard, refer to Cable Pinouts section
- Inadequate wire stripping: Check that wires have been stripped to the correct length
- Bad crimp: Check for any bad crimps
- Faulty connector: Test by switching to a different brand of connector

General

- End of Line LED is lit incorrectly: Check bus in and out are plugged in correctly
- Bus Activity LED does not light up: Check previous Bus Activity LED of the previous data hub – if the lights are active, check for mis-wire issues between the two data hubs
- Data Hub V2 restarts (cycling LEDs when activity occurs):
 - If the LEDs cycle when activity occurs, check for a damaged motor or bad motor wire (when there are two motors)
 - If the LEDs cycle even when there is no bus activity, there may be issues powering a keypad
- Two motors plugged in, but Powered by Motors LED is not lit (motors will not jog when plugged in): Ensure power and data cables have been used and check for mis-wiring using the Sequence button
- Motor does not jog when plugged into the Data Hub V2: Ensure power and data cables have been used and check for mis-wiring using the Sequence button