



SDN PowerConnect™ Rack-Mount Panel

Part #1049438 (Single) • Part #1049439 (Dual Kit)

OVERVIEW

The SDN PowerConnect™ Rack-Mount Panel is a Somfy Digital Network™ (SDN) bus distribution device used to add eight isolated motor ports and two isolated device ports to an SDN bus segment. The isolated motor ports support up to 240 feet of power and data wiring to Somfy's range of low-voltage SDN motors. The rack-mountable enclosure comes in a single unit or dual kit that allows up to 16 motors to be installed in IU. This product can be used in small SDN systems with two control devices and eight individual motors as a stand-alone solution, or it can be scaled for larger SDN or animeo® IP systems.



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 integration devices. SDN is scalable and suitable for both small and large projects. The same components are used whether an SDN system remains stand-alone, integrated into third-party automation systems, or with Somfy's animeo® IP automated total solar management system.

TECHNICAL SPECIFICATIONS

Input	100-240V AC, 8.2A 277V AC, 4.3A	
Motor Output	24V DC 2.2A	
Material	Powder coated steel enclosure	
Dimensions	1.71 in. H x 8.56 in. W x 12.29 in. D 4.34 cm H x 21.74 cm W x 31.22 cm D	
Maximum Wiring Distance	To motors	Up to 240 ft. per motor port. Somfy recommends the use of the SDN Low-voltage Motor Power and Data Cable, available in both Plenum (US: #1049445 and Non-Plenum (US: #1049444) versions
	To devices	Up to 200 ft. per device port
Operating Temperature Range	Ambient temperature	
Shipping Weight	5.3 lbs.	
Indoor use only		
		

FEATURES SUMMARY

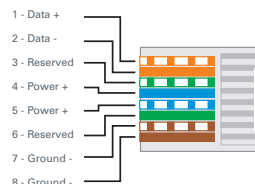
- Enables control of eight RS485 DC motors per panel
- Single and dual kit options add flexibility to installation
- Sequence button allows for testing of motor operation directly at the power panel
- Provides power to SDN device ports from internal power supplies (add a bus power source when adding a Data Hub or other bus-powered device connected to the bus line)
- Two device ports isolated from SDN bus
- Includes bus segment status LEDs for:
 - Power
 - Activity
 - End of line notification
- Protects system components from mis-wire

OPTIONAL ACCESSORIES

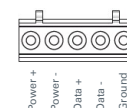
- SDN Weidmüller 5-position Female Field Installable Connector 1049440
- SDN Weidmüller 5-position Male Field Installable Connector 1049441

CABLE PINOUTS

SDN Pinout
ANSI/TIA/EIA 568-B Standard



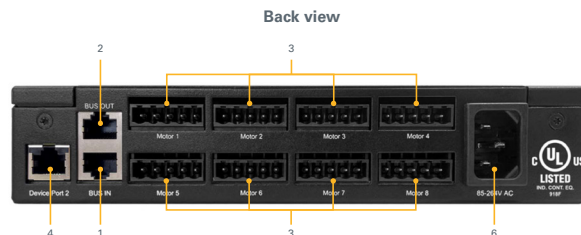
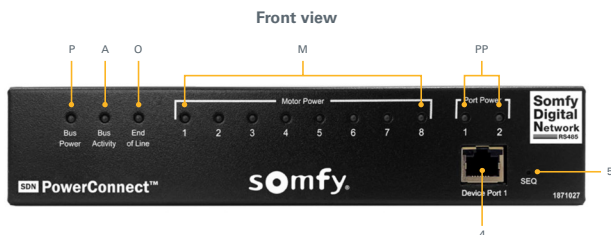
Motor Input



WHAT'S IN THE BOX

- SDN PowerConnect™ Rack-Mount Panel
- Mounting hardware
- Instructions
- 8 Female Weidmüller connectors
- AC Power Cord

CONNECTIONS AND INDICATORS

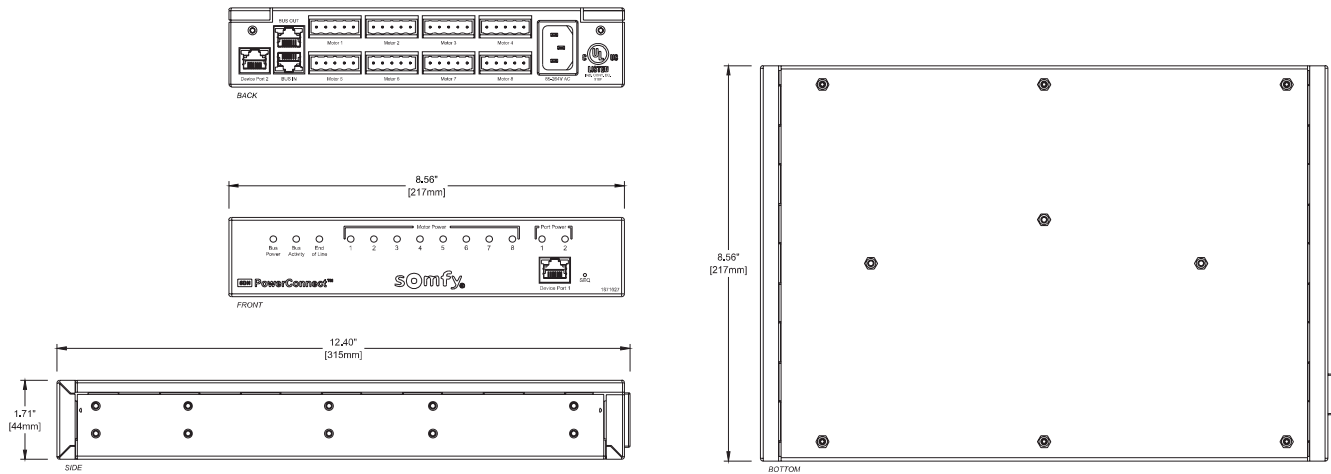


ELEMENT	FUNCTION
1	SDN Bus In Input for bus signals
2	SDN Bus Out Output for bus signals
3	Isolated Motor Port Connects eight low-voltage motors to SDN network
4	Device Ports Connect SDN Device to Power Panel (One SDN Device per port, max. 200 ft. each)
5	SEQ Button Moves motor sequentially UP/STOP/DOWN
6	AC Power Input Input power

LED Indicators			
Label	Element	Function ON	Function OFF
P	Bus Power	Power	No power
A	Bus Activity	Data	No data
O	End of Line	End of bus	Not end of bus
M	Motor Power	Port powered	Port not powered
PP	Port Power	Power (Green) No power (Yellow) Power fault (Red)	Panel not powered

SDN PowerConnect™ Rack-Mount Panel

DIMENSIONS

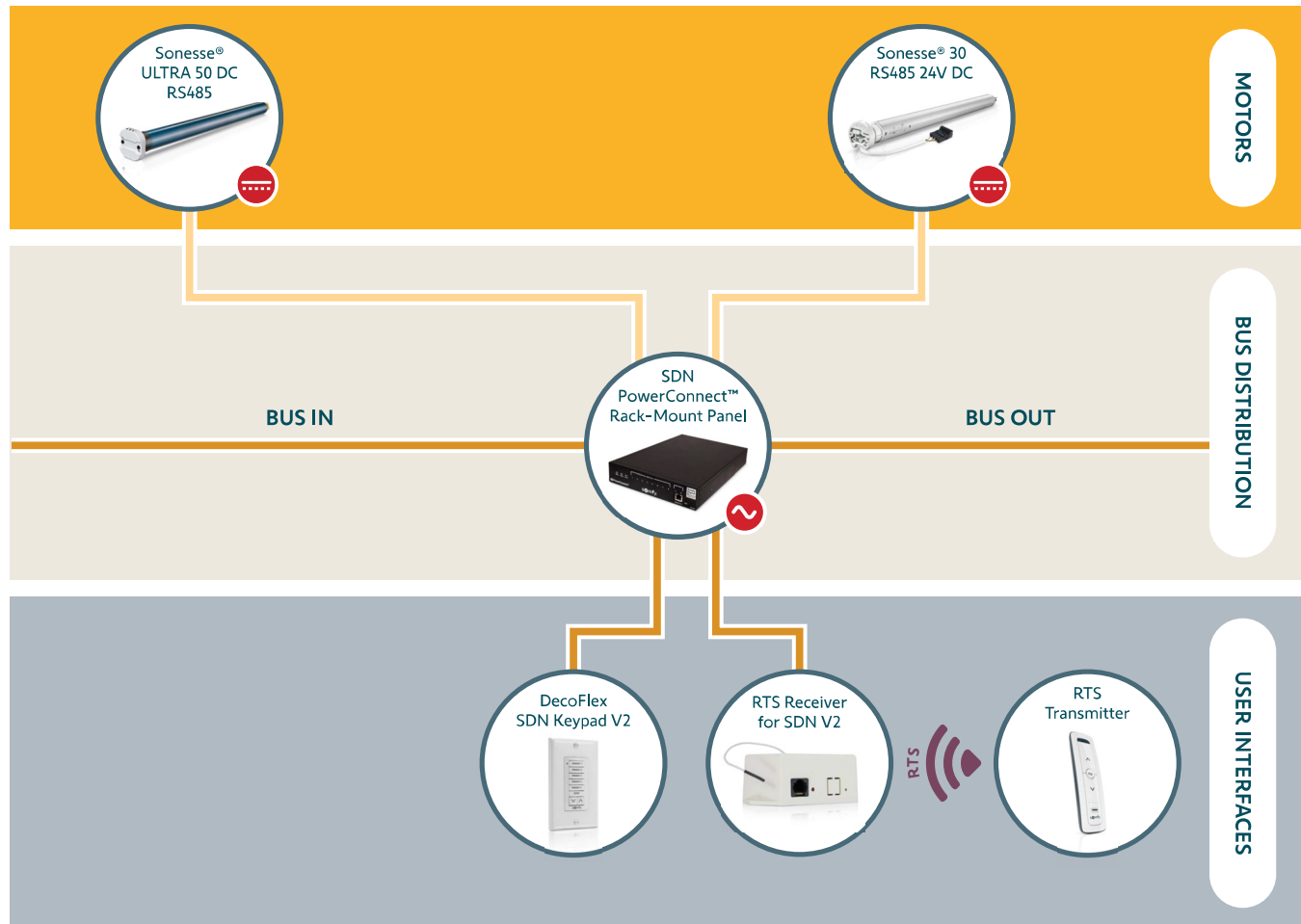


BEST WIRING PRACTICES

The diagram 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.

- Adds 8 isolated motor ports and two isolated device ports to a system
- Each device port supports one device
- Maximum 200 ft. per isolated device port
- Motor wiring distance up to 240 ft. per motor port. Somfy requires the use of the SDN Low-voltage Motor Power and Data Cable, available in both Plenum and Non-Plenum versions from Somfy.

NOTE: Provides power to SDN device ports from internal power supplies. Consumes power from internal power supplies. Add a Bus Power Supply when adding a Data Hub or other bus-powered device connected to the bus line.





SDN PowerConnect™ Rack-Mount Panel

Wiring: ST50 DC with SDN Low-Voltage Cable to PowerConnect™ Rack-Mount Panel

