

SDN 0-10V Interface

Item #: 1860333



OVERVIEW:

The **SDN 0-10V Interface** is a Somfy Digital Network™ (SDN) device which receives industry standard 0-10V control input to operate SDN RS485 motors. This product is "plug and play" operating as a group device controlling all motors in a group without having to program the interface.



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, integrated into third party automation systems.

TECHNICAL SPECIFICATIONS:

- Power Input: 24V DC, 500 mA
- Bus Power Output: 45 SDN Bus Power units
- Material: ABS
- Operating Temperature Range: Ambient temperature
- Dimensions: 3.8" L x 2" W x 0.8" H
- Conforms to all SDN wiring best practices
- Shipping Weight: 1 lb.
- Indoor use only
- 0 volts defaults to open shade (reverse operation would be fully closed)

FEATURES SUMMARY:

- Convert 0-10 analog input to broadcast SDN commands
- Control motors to move as a group
- Supports up to 20 Motors
- Supports Data Hubs, Keypads, and RTS Receivers with specified Bus Power output
- Connects to most 0-10V analog output systems
- Includes reverse shade percentage button
- 8 Intermediate positions available (refer to SDN 0-10V Interface Instructions)

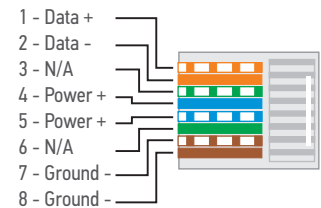
WHAT'S IN THE BOX:

- 0-10V Interface
- 24V DC 500 mA Power supply
- Instructions

CABLE PINOUTS:

SDN Pinout

ANSI/TIA/EIA 568-B Standard

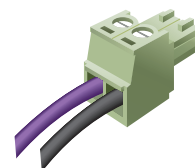


Power Input: 5.5 mm Barrel connector



Center: Positive (+)
Outside: Negative (-)

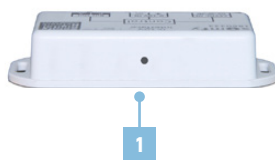
0-10V Control Input



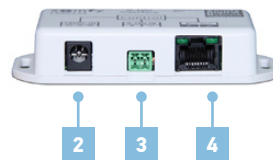
Violet: Positive (+)
Grey: Negative (-)

CONNECTIONS AND INDICATORS:

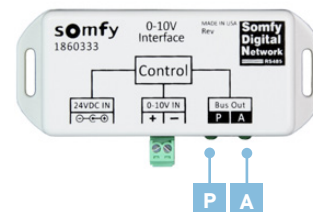
Back Side



Front Side



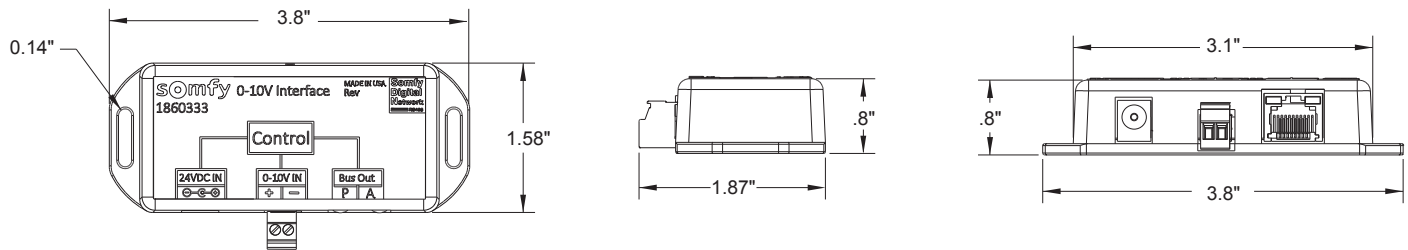
Top Side



ELEMENT	FUNCTION
1 Reverse Button	Reverse shade position percentage
2 Power Input (5.5 mm Female Barrel Connector)	Supply 24V DC power to device
3 0-10V Input (screw clamp connector)	Input from Control System
4 SDN Bus Power and Data Output (Female RJ45)	Output for bus data and power

LED Indicators				
LABEL	ELEMENT	COLOR	FUNCTION ON	FUNCTION OFF
P	Bus Power	Green	Power	No Power
A	A (activity)	Green	Data	No Data

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.

- Integrate 0-10V analog inputs to operate a Somfy Digital Network (RS485 motors)
- Up to 4000 ft. cumulative SDN network wiring
- Using an 18 AWG cable, 100 ft. is the maximum distance to the 0-10V input port

