SDN 0-10V Interface

ELITE PRO

OVERVIEW:

The SDN 0-10V Interface is a Somfy Digital Network™ (SDN) device which receives industry standard 0-10V control input from a dimmer switch 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 RS485

SOMFY DIGITAL NETWORK SYSTEM OVERVIEW:

The Somfy Digital Network (SDN) is an intelligent wired shading network. An SDN system is comprised of bus distribution devices that create a network for user interfaces, motorized shades, and sensors to be connected. SDN is highly scalable and suitable for large and small projects. The same components are used whether an SDN system remains standalone or integrated into third party automation systems.

CABLE PINOUTS:

SDN Pinout
ANSI/TIA/EIA 568-B Standard

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

TECHNICAL SPECIFICATIONS:

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

FEATURES SUMMARY:

- Conversts 0-10 analog input to broadcast SDN commands
- Control motors to move as a group (up to 20 motors at a time)
- Connects to most 0-10V analog output systems
- Includes reverse shade percentage dip switch
- 8 Intermediate positions available (refer to SDN 0-10V Interface Instructions)
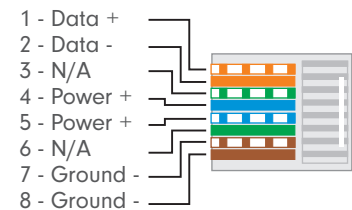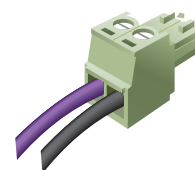
Power Input: 5.5 mm Barrel Connector

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

0-10V Control Input

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

WHAT'S IN THE BOX:

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

CONNECTIONS AND INDICATORS:

Back Side

Front Side
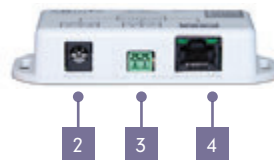
Top Side

|	ELEMENT	FUNCTION
1	Reverse Button	Reverse shade position %
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	COLOUR	FUNCTION ON	FUNCTION OFF
P	Bus Power	Green	Power	No Power
A	A (activity)	Green	Data	No Data

POWERED by somfy.

SDN 0-10V Interface

DIMENSIONS:
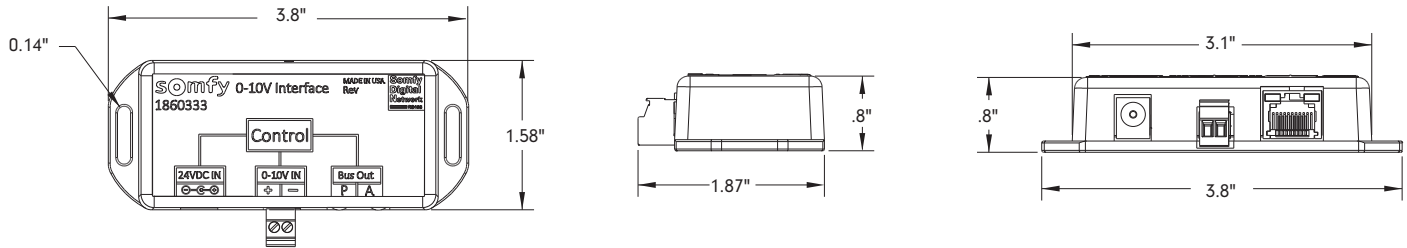
BEST WIRING PRACTICES

The diagram shown below is meant for illustrative purposes to show the connections from product to product. This device could be used in configurations than that 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 4000ft of cumulative SDN network wiring.
- Using an 18AWG cable, 100ft. is the maximum distance to the 0-10V input port.