SDN 0-10V Interface V2

Item #: 1870857

OVERVIEW:

The SDN 0-10V Interface is a device which accepts the lighting industry standard 0-10V analog dimming signal and converts it to an SDN or animeo® IP command to drive a single or a group of motors.

The control is housed in a junction-box-mountable, plenum-rated enclosure and powered by line voltage. There is a single RJ45 jack on the device which provides the connection to the SDN bus via a standard CAT-5 cable.

SDN 0-10V INTERFACE V2
PART NO: 1870857
INPUT: 120V AC 60 Hz
0-10V RATING: 24V DC 200mA
FOR INDOOR USE ONLY
PLENUM RATED

Somfy Digital Network RS485

cULus LISTED IND. CONT. EQ. 918F

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, suitable for both small and large projects, and the same components are used whether an SDN system remains stand-alone, integrated into third-party automation systems.

TECHNICAL SPECIFICATIONS:

- Powered by line voltage. Input: 120V AC/60 Hz @ 20mA
- AC main and 0-10V wires are 18 AWG stranded copper
- Switchable SDN Power Output: 24V DC @ 200mA
- Single output with standard SDN pinouts
- Capable of providing Group All or Group-Specific Addressing
- 10 and 11 programmable intermediate positions
- Can support 30 motors through 6 Data Hubs. Additional motors can be added with an SDN Bus Power Supply (Item #: 1822440)
- Toggle switch to turn SDN Bus power on/off
- Compatible with animeo IP and UAI Plus

- Junction Box Mounted Plenum Rated Enclosure
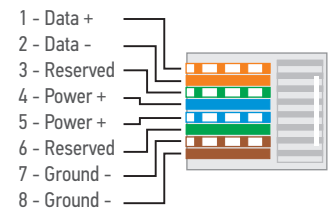- UL Listed
- For indoor use only

WHAT'S IN THE BOX:

- SDN 0-10V Interface V2
- 1/2" NPT Lock Nut for Junction Box
- Instructions

CABLE PINOUTS:
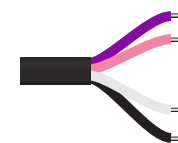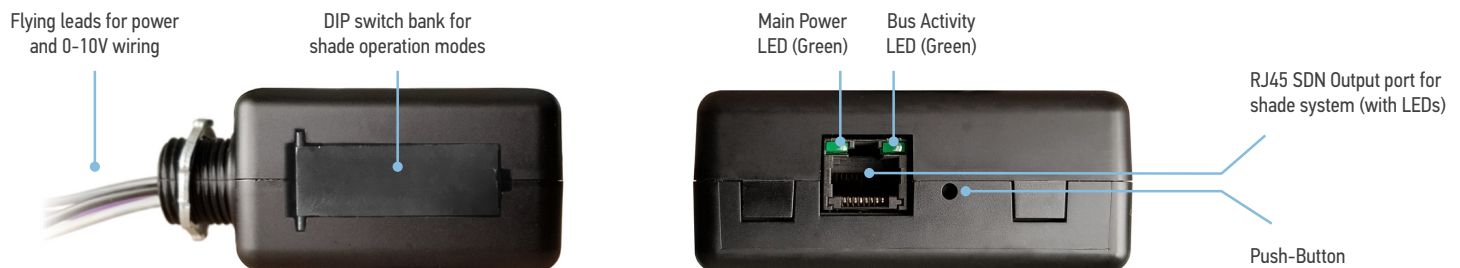
SDN Pinout

ANSI/TIA/EIA 568-B Standard

1 - Data +
2 - Data -
3 - Reserved
4 - Power +
5 - Power +
6 - Reserved
7 - Ground -
8 - Ground -

0-10V Sense Input:
Purple: Positive (+)
Pink: Negative (-)

120V Power Input:
White: Neutral
Black: Line

CONNECTIONS AND INDICATORS:

Flying leads for power and 0-10V wiring

DIP switch bank for shade operation modes

Main Power LED (Green)

Bus Activity LED (Green)

RJ45 SDN Output port for shade system (with LEDs)

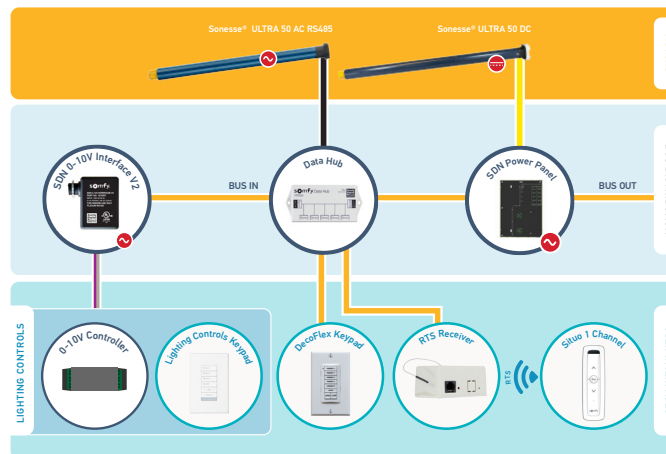Push-Button

DIMENSIONS:

2.33
3.09
1.30
3.09
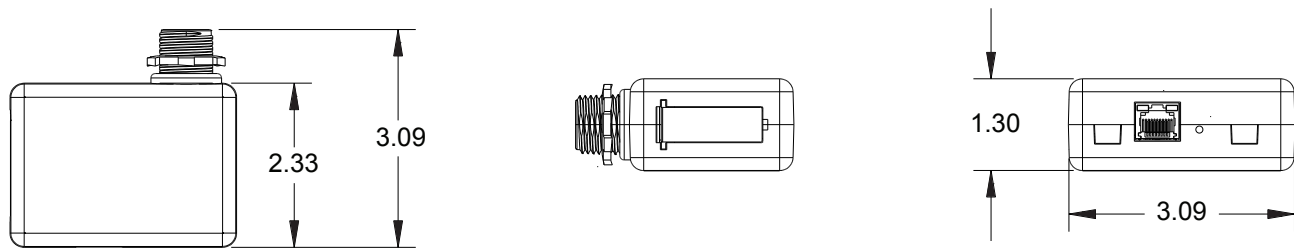
BEST WIRING PRACTICES

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 1600 ft. cumulative SDN network wiring
- Using an 18 AWG cable, 100 ft. is the maximum distance to the 0-10V input port

SDN Standalone Network

SDN animeo IP Network

somfy®