Outside Sensor Box

Item #: 9001606

OVERVIEW:

The **Outside Sensor Box** is the interface between the weather station and the animeo® IP Building Controller or Sub Controller. All measurement values are evaluated within the sensor box and sent to the Building Controller.



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. The same components are used whether an SDN system remains standalone, integrated into third party automation systems, or with Somfy's animeo® IP automated total solar management system.

FEATURES SUMMARY:

- The Outside Sensor Box can be mounted directly to the sensor station
- Up to 8 sun sensors, 2 wind speed sensors (standard or heated), 1 wind direction sensor, 1 rain sensor, 1 outside temperature sensor as well as a DCF plug module can be connected to the Outside Sensor Box
- Only the 24V AC power supply and data communication supply cables need to connect to the Outside Sensor Box
- All wiring is easy to install using spring clamp connectors
- Simple to connect and setup using animeo® IP building control solutions
- Status display through LED's for clear monitoring of connected and functioning individual sensors
- Can be mounted up to 150' away from the Building Controller

TECHNICAL SPECIFICATIONS:

- Input: 24V DC Maximum Operating Current: 1 Amp
- Power Consumption: 100 mA (standby current)
- Material: ABS polycarbonate
- Dimensions: (W x H x D):
  8.15 in. x 10.04 in. x 3.54 in. (207 x 255 x 90 mm)
- Operating Temperature Range:
  -22°F to 158°F (-30°C to 70°C)
- Relative Humidity: 85%
- Degree of Protection: IP 65
- Input Bus: RJ45 (female)
- Terminal Types: Spring connectors
- Shipping Weight: (1.83 lbs.) (830g)
- Listings: CE
- Protection Class: II, corresponding to the installation

WHAT'S IN THE BOX:

- Outside Sensor Box
- Installation Instructions
- Spring clamp terminal connection tool

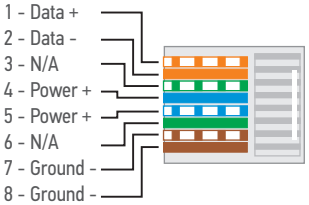
OPTIONAL ACCESSORIES:

Sun Sensor w/ bracket	#9154043
Outside Temperature Sensor	#9001611
Ondeis® Rain Sensor	#9016344
Large Wind Speed Sensor	#9001608
Heated Wind Sensor	#9140180
Bus Power Supply	#1822440
Outside Sensor Extension Box	#9001607
Mast for sun, wind and rain sensors	#9001394
Roof Mounting Base	#9014300
Inside Sensor Box	#9001614

CABLE PINOUTS:

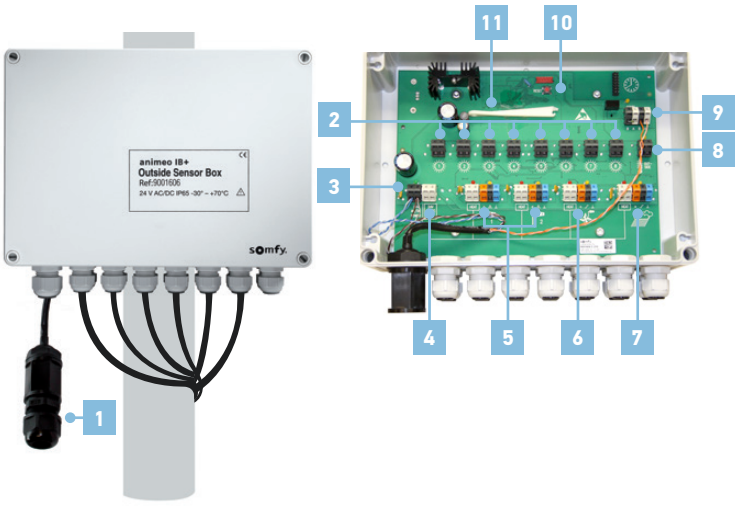
SDN Cable Pinout: (RJ45 connector)

ANSI/TIA/EIA 568-B Standard



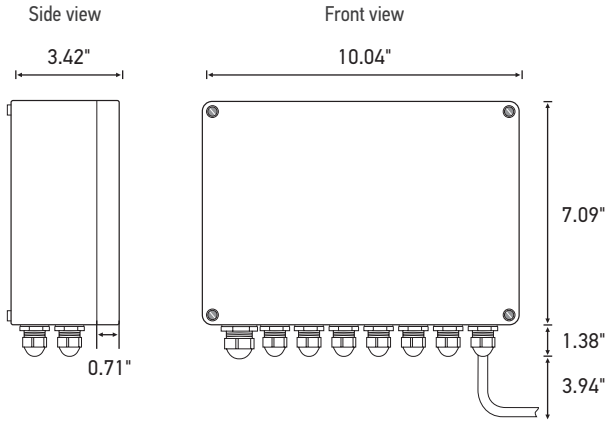
CONNECTIONS AND INDICATORS:

	ELEMENT	FUNCTION
1	**Weatherproof RJ45 Jack**	Powered SDN bus
2	**Sun Sensor Input 1-8***	Records input from Sun Sensor 1-8
3	**Bus Power Input***	24V DC in for powering Sensor Box & Sensors
4	**Heater Input***	24V DC for heated sensors (additional Power supply and CAT5 required)
5	**Wind Sensors Input 1-2***	Records the input from the Wind Sensor
6	**Wind Direction Input***	Records the input from the Wind Sensor
7	**Rain Sensor Input***	Records the input from the Rain Sensor
8	**Outside Temperature Sensor Input***	Records the input from the Outside Temperature Sensor
9	**Sensor Bus***	Sends the commands from the sensors to the bus line
10	**Reset Button**	Push button reset to reboot the sensor box
11	**Terminal Connection Tool**	Opens spring clamp terminal connections



Note: * shows elements that include LED indicators

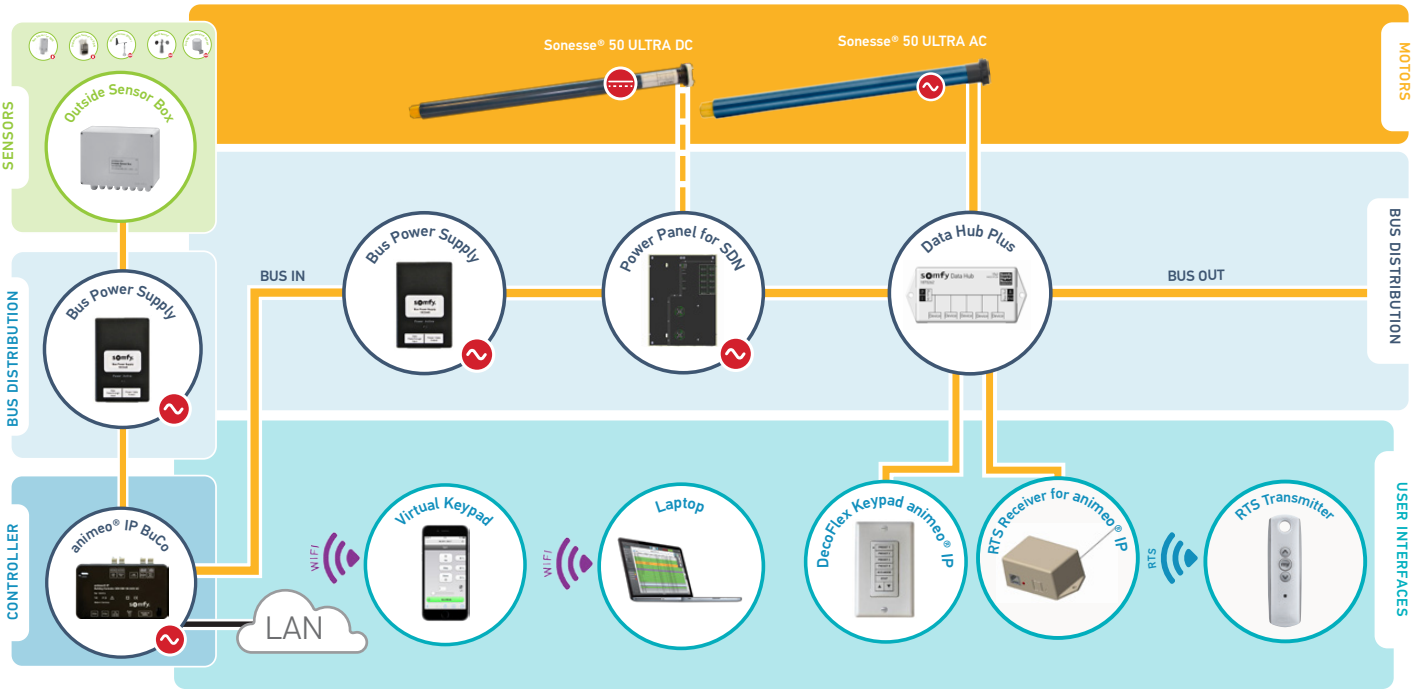
DIMENSIONS:



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.

- **ALL Connections below:** Category 5 or higher cable with a T568B pinout configuration
- **SDN Bus:** Wiring length to start of SDN bus should not exceed 30 ft
- **Sensor Bus:** The sensor bus should not exceed 4,000' in total wire length
- **External IP Network:** The external IP network cable should not exceed 330 ft
- **animeo IP Network:** The animeo IP network should not exceed 330 ft
- Max 200 Motors, but can be expanded to more using a Sub Controller



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