Outside Sensor Box

Part #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.

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

FEATURES SUMMARY

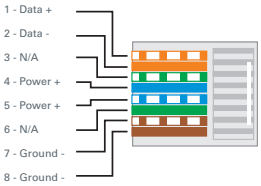
- The Outside Sensor Box can be mounted directly to the sensor station
- Up to 8 sun sensors, 2 wind speed sensors (standard or heated), 1 wind direction sensor, 1 rain sensor, 1 outside temperature sensor as well as a DCF plug module can be connected to the Outside Sensor Box
- Only the 24V AC power 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

WHAT'S IN THE BOX

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

CABLE PINOUTS

SDN Cable Pinout: (RJ45 connector)
ANSI/TIA/EIA 568-B Standard

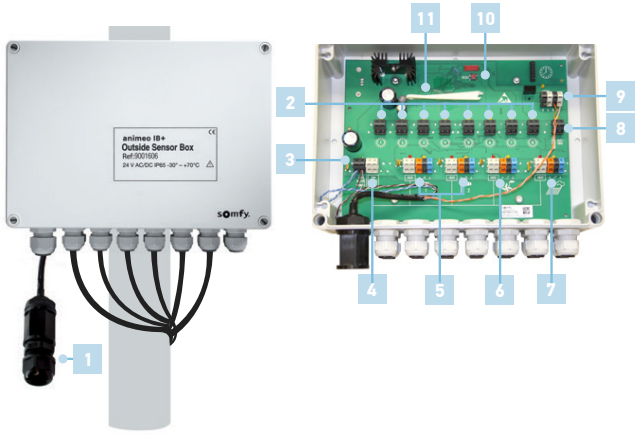


OPTIONAL ACCESSORIES

- Sun Sensor w/ bracket 9154043
- Outside Temperature Sensor 9001611
- Large Wind Speed Sensor 9001608
- Bus Power Supply 1822440

CONNECTIONS AND INDICATORS

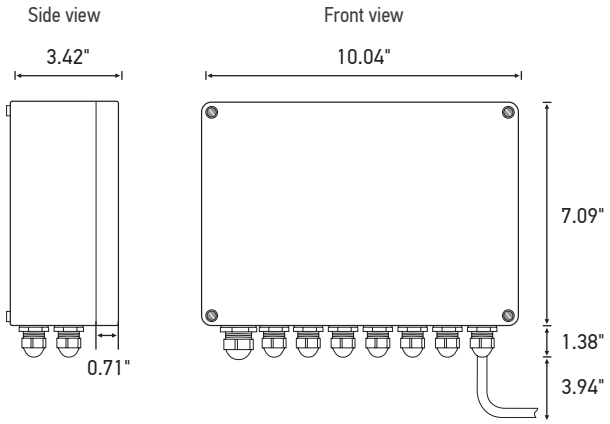
	ELEMENT	FUNCTION
1	Weatherproof RJ45 Jack	Powered SDN bus
2	Sun Sensor Input 1-8*	Records input from Sun Sensor 1-8
3	Bus Power Input*	24V DC in for powering Sensor Box & Sensors
4	Heater Input*	24V DC for heated sensors (additional Power supply and CAT5 required)
5	Wind Sensors Input 1-2*	Records the 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

Outside Sensor Box

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