Somfy Connect™ BMS Interface

Item #:1870249 (Revision A)

Somfy Digital Network RS485

OVERVIEW:

The **Somfy Connect™ BMS Interface for SDN** provides communication and control between Building Management Systems and Somfy Digital Network™ (SDN) motorized shading systems, either as a stand-alone installation or when part of an animeo® IP system. This interface communicates through a direct connection to the building management system via IP or serial, or uses a BACnet translator box to send and receive signals.

SOMFY CONNECT™ RANGE OVERVIEW:

The Somfy Connect™ product line expands the functionality of Somfy motorization systems, providing a communication gateway for Somfy motorization systems to easily integrate with third-party control systems in both residential and commercial projects.
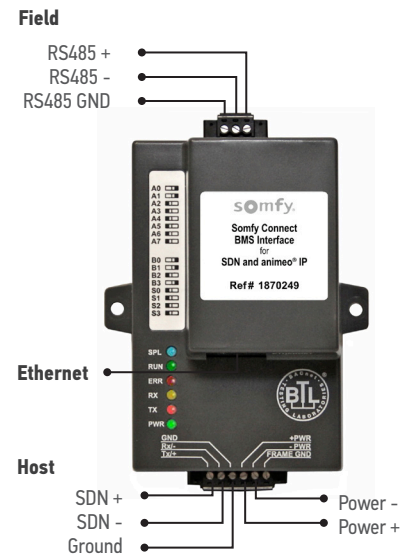
FEATURES SUMMARY:

- System control
  - Stand-alone SDN - control individual or motor groups
    - Position (%) – feedback on motors only
    - Position (absolute) – feedback on motors only
    - Intermediate position
    - Up, Stop, and Down control
  - animeo® IP – control individual or motor groups, sensors, and virtual keypads
    - Position (%) – feedback on motors only
    - Up, Stop, and Down control/commands
    - Priority control
    - Sensor data – provides single direction information to BMS system
- Supports up to 2500 data points
- Integration capabilities:
  - Modbus
  - BACnet MS/TP
  - BACnet IP
- Programmable through user-friendly interface
- Auto discovery for animeo IP

TECHNICAL SPECIFICATIONS:

- 2500 data points maximum
- Input: 9-30 VDC or 12-24 VAC
- Power Consumption: 250 mA
- Material: ABS plastic
- Dimensions: 4.5" L x 3.6" W x 1.6" H
- Operating Temperature Range: -40° F to 167° F (-40° C to 75° C)
- Relative Humidity: 5-90% RH, non-condensing
- Shipping Weight: 1 Lb.
- Approvals:
  - BACnet Testing Labs (BTL) B-ASC Ver. 12
  - TUV approved to UL 916 EN 60950-1, EN 50491-3 and CSA C22-2 standards
  - RoHS Compliant
  - DNP3 Conformance Tested
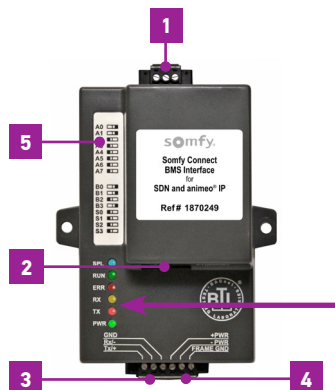 - CE & FCC Approved
  - BTL Marked Certified

WHAT'S IN THE BOX:

- (1) 24V DC 1.66A Wall Mount Power Supply (Cat. No. 1822209)
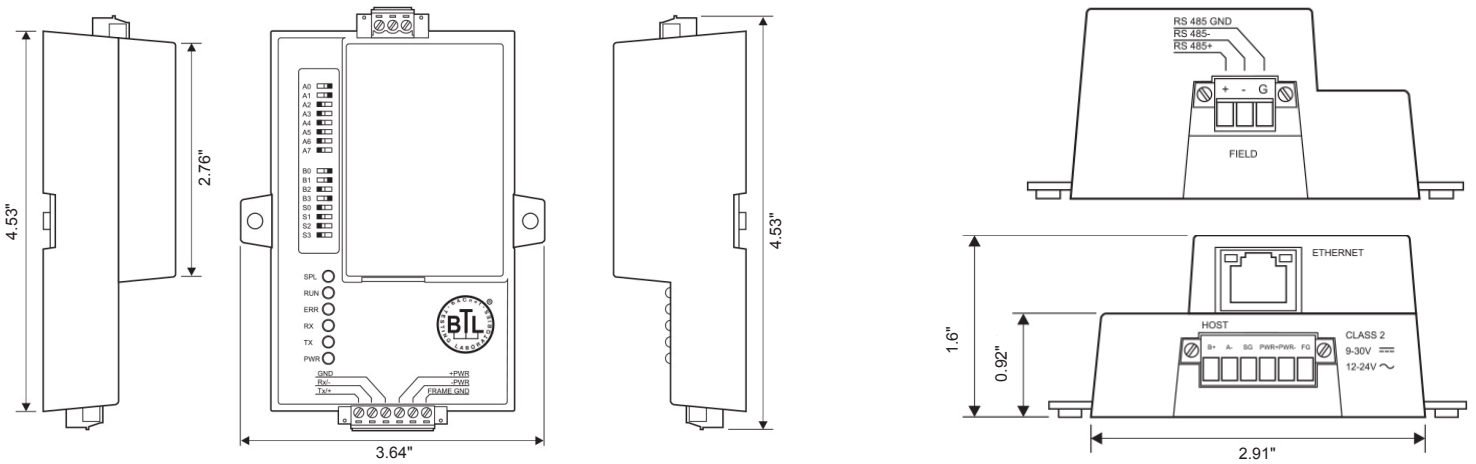- Somfy Connect™ BMS Interface quick guide (in-depth instructions online)

CABLE PINOUTS:

Field
RS485 +
RS485 -
RS485 GND

Ethernet

Host
SDN +
SDN -
Ground

Power -
Power +

CONNECTIONS AND INDICATORS:

	ELEMENT	FUNCTION
1	**Field**	BACnet MS/TP and Modbus connection screw terminal
2	**Ethernet Port**	Local area network configuration connection using an RJ45 connection port
3	**Host**	Stand-alone SDN connection screw terminal
4	**Power**	9-30V DC or 12-24V AC screw terminal
5	**DIP Switches**	Change configuration options

TAG	ELEMENT
SPL	Not used
RUN	Once powered, wait 20 seconds and the green LED will begin to flash to indicate normal operation.
ERR	A solid red light indicates a system error on the interface.
RX	Blinks yellow to indicate activity
TX	Blinks red to indicate activity
PWR	Solid green at all times
RTC	Unused

somfy®

DIMENSIONS:

Labels visible: A0, A1, A2, A3, A4, A5, A6, A7, B0, B1, B2, B3, S0, S1, S2, S3

SPL, RUN, ERR, RX, TX, PWR

BTL

GND, Rx/-, Tx/+, +PWR, -PWR, FRAME GND

4.53"
2.76"
3.64"
4.53"

RS 485 GND
RS 485-
RS 485+
+ − G
FIELD

ETHERNET
HOST
B+ A- SG PWR+ PWR- FG
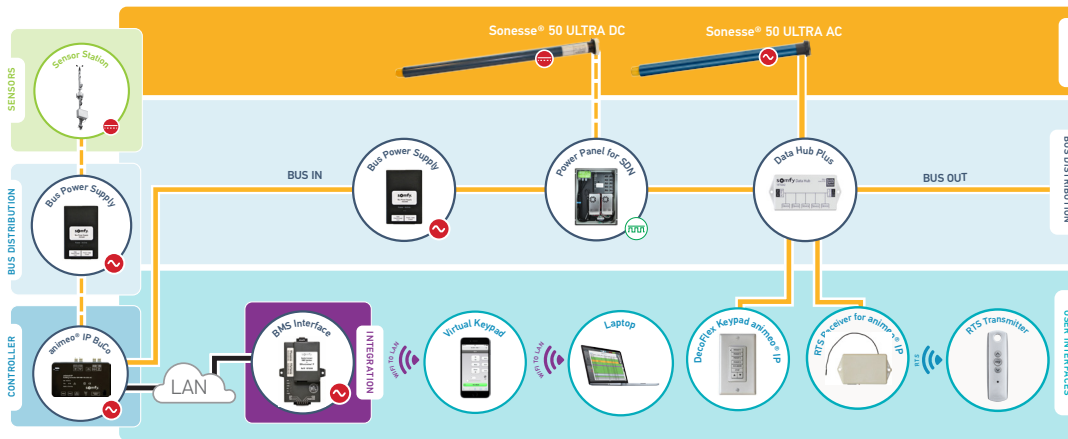CLASS 2
9-30V
12-24V
1.6"
0.92"
2.91"

BEST WIRING PRACTICES

The diagrams shown below are 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.

- animeo® IP: Network connection to Somfy Connect™ BMS Interface.
- Stand-alone SDN: Wired connection from BMS Interface to any SDN device port or the data port of the Bus Power Supply
- BMS Interface connects to the Building Management System via IP or Serial connection
- For specification information on individual products see related product information
- Follow all SDN wiring standards for distance limitations

animeo® IP:

Stand-alone SDN: