Somfy Connect BMS Interface
Part #1870249

Overview:
The Somfy Connect™ BMS Interface provides communication between building management systems using BACnet® technologies and Somfy Digital Network™ (SDN) motorized shading systems with or without animeo® IP, Somfy's Total Solar Management System. The BMS interface communicates over IP or the building's wired BMS network to send and receive signals between the building management system and animeo IP or stand-alone SDN systems. When installed, the BMS Interface provides control of individual motors and groups of motors, and when installed in animeo IP systems, control of virtual keypads and feedback from sensors. The Somfy Connect BMS Interface is easily programmable through a web-friendly interface and has integration capabilities for Modbus RTU, Modbus IP, BACnet MS/TP, and BACnet IP.

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 1500 data points.
- Integration capabilities: Modbus, BACnet MS/TP, BACnet IP
- Sensor data – provides single direction information to the BACnet network.
- Programmable through user friendly interface.
- Auto device discovery for animeo IP.

What’s in the Box:
- (1) 24V DC 1.66A Wall Mount Power Supply
  (Cat. No. 1822209)
- BACnet device quick guide (in-depth instructions online)

Optional Accessories:
- Bus Power Supply (Cat. No. 1822440)
- Data Hub

Technical Specifications:
- 1500 data points maximum
- Input: 9-30 VDC or 12-24 VAC
- Power Consumption: 250 mA
- Material: ABS plastic
- Dimensions: (L x W x H) 4.5 x 3.2 x 1.6 in.
- Operating Temperature Range: Fe –40° to 167°
- 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

Connections and Indicators:

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<tr>
<th>CONNECTIONS</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Field</td>
<td>BACnet MS/TP and Modbus connection Screw terminal</td>
</tr>
<tr>
<td>2 Ethernet Port</td>
<td>Local area network configuration connection between BACnet IP and animeo IP using an RJ45 connection port</td>
</tr>
<tr>
<td>3 Host</td>
<td>Stand alone SDN or URTSI connection Screw terminal</td>
</tr>
<tr>
<td>4 Power</td>
<td>9-30V DC or 12-24V AC Screw terminal</td>
</tr>
</tbody>
</table>

TAG | LED INDICATORS |
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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 | Stand alone SDN communication status |
TX | Stand alone SDN communication status |
PWR | Solid green at all times |
RTC | Unused |
### Wiring Best Practices:

#### animeo IP

- **Sensors**
  - Compact Sensor
  - Sonesse 30 RS485
  - Sonesse 50 RS485

- **Motors**
  - Sonesse 30 RS485
  - Sonesse 50 RS485

- **Bus Power Supply**
- **Bus Distribution**

- **Controller**
  - Sub Controller

- **User Interfaces**
  - Virtual Keypad
  - Laptop
  - BMS Interface

#### Standalone SDN

- **Motors**
- **Bus Power Supply**
- **Bus Distribution**
- **RTS Transmitter**
- **RTS Receiver**
- **Data Hub**
- **User Interfaces**

### Component Types

- **Motor**
- **Sensors**
- **Bus Distribution/Controller**
- **User Interfaces**

### Wiring Connection Types

- **Wireless**
  - RTS
  - WiFi

- **Somfy Digital Network (SDN)**
  - SDN
  - SDN w/motor power
  - Sensor Bus

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**HunterDouglas Architectural**