Smart Dupline®
Temperature Sensor
Type BSI-TEMANA-U

Product Description
The BSI-TEMANA-U is a temperature sensor for indoor and outdoor applications. It is part of the smart-house concept and it can be used in the functions supported by the smart-house controller where a temperature value is needed. The environmental data read from the smart-house sensor (temperature and humidity) are logged into the SH2WEB24.

Type Selection
<table>
<thead>
<tr>
<th>Connection</th>
<th>Supply by Dupline®</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12 plug</td>
<td>BSI-TEMANA-U</td>
</tr>
<tr>
<td>2 m cable</td>
<td>BSI-TEMANAB-U</td>
</tr>
</tbody>
</table>

Input Specifications
<table>
<thead>
<tr>
<th>Temperature</th>
<th>Sensor range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-40° to + 60°C (-40° to 140°F)</td>
<td>-40° to -20°C (-40° to -4°F), 1°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-20° to +60°C (-4° to 140°F), 0.5°C</td>
</tr>
</tbody>
</table>

Supply Specifications
| Power supply | Supplied by Dupline® |

Dupline Output Specifications
<table>
<thead>
<tr>
<th>Voltage</th>
<th>8.2 V</th>
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</thead>
<tbody>
<tr>
<td>Maximum Dupline® voltage</td>
<td>10 V</td>
</tr>
<tr>
<td>Minimum Dupline® voltage</td>
<td>5.5 V</td>
</tr>
<tr>
<td>Maximum Dupline® current</td>
<td>1 mA</td>
</tr>
</tbody>
</table>

Connections
M12 plug with terminals
Pin 1: D+
Pin 2: N/C
Pin 3: N/C
Pin 4: D-

Standard cable with M12 plug (IEC 60947-5-2) with 4 wires:
Black: D-
Brown: D+
Blue: D-

Ordering Key
BSI TEMANA U
Decentral module
Temperature sensor
Smart dupline®

• Temperature sensor
• Temperature range: -40°C to +60°C
• Plug and cable versions
• Easily mountable
• No power supply is needed

Specifications are subject to change without notice (20.01.2015)
General Specifications

Address assignments / channel programming
If it is used with the Sx2WEB24 the address assignment is automatic: the controller recognises the module through the SIN (Specific Identification Number) that has to be inserted in the Sx tool. If it is used with the BH8-CTRL-230, the channels have to be programmed by the BGP-COD-BAT.

Environment
Degree of protection: IP 67
Operating temperature: -40°C to +60°C (-40°F to 140°F)
Storage temperature: -55° to +85°C (-67° to 185°F)
Humidity (non-condensing): 20 to 80 RH

Connection
Plug: BSI-TEMANA-U
Cable: BSI-TEMANAB-U

Housing
Dimensions: 68.3 x 35 x 15 mm
Housing material: Polycarbonate
Plug material: Nylon
Color: Light grey
Mounting: Direct wall mounting

Note: To measure the air temperature, the sensor should not be wall-mounted, but it should be exposed to air flow.

Mode of Operation
The sensor is mounted right at the location where the temperature is to be measured. The sensor measures the temperature and transmits the value to the smart-house controller. To measure the air temperature, the sensor should not be wall-mounted, but should be exposed to air flow.

BSI-TEMANAx-U connected to the Sx2WEB24 Coding/Addressing
If the temperature sensor is connected to the Sx2WEB24 controller, no addressing is needed since the module is provided with a specific identification number (SIN): the user has only to insert the SIN number in the Sx tool when creating the system configuration.

BSI-TEMANAx-U connected to the BH8-CTRLX-230 Coding/Addressing
If the sensor is connected to the BH8-CTRLX-230 controller, the user has to program the dupline channels using the BGP-COD-BAT; this module has 1 analink output channel.

Weight
338 g

Approvals
cULus according to UL60950

CE Marking
Yes

EMC
- Immunity
  - Electrostatic discharge
  - Radiated radiofrequency
  - Burst immunity
  - Surge
  - Conducted radio frequency
  - Power frequency magnetic fields
  - Voltage dips, variations, interruptions
- Emission
  - Conducted and radiated emissions
  - Conducted emissions
  - Radiated emissions

EN 61000-6-2
EN 61000-4-2
EN 61000-4-3
EN 61000-4-4
EN 61000-4-5
EN 61000-4-6
EN 61000-4-8
EN 61000-4-11
EN 61000-6-3
CISPR 22 (EN55022), cl. B
CISPR 16-2-1 (EN55016-2-1)
CISPR 16-2-3 (EN55016-2-3)

Dimensions

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