

# Smart Dupline® Temperature Sensor Type BSI-TEMANA-U

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

## 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 tempera-

ture value is needed. The environmental data read from the smart-house sensor (temperature and humidity) are logged into the SH2WEB24.

## Ordering Key

**BSI TEMANA U**

Decentral module

Temperature sensor

Smart dupline®

## Type Selection

Connection	Supply by Dupline®
M12 plug 2 m cable	<b>BSI-TEMANA-U</b> <b>BSI-TEMANAB-U</b>

## Input Specifications

Temperature	
Sensor range	-40° to + 60°C° (-40° to 140°F)
Accuracy	-40° to -20°C (-40° to -4°F), 1°C -20° to +60°C (-4° to 140°F), 0.5°C

## Supply Specifications

Power supply	Supplied by Dupline®
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## Dupline Output Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	1 mA

## Connections

<b>M12 plug with terminals</b>	Pin 1: D+ Pin 2: N/C Pin 3: N/C Pin 4: D-
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**Standard cable with M12 plug (IEC 60947-5-2)**  
with 4 wires:

Black: D-  
Brown: D+  
Blue: D-

**Note:** All wires must be connected.

## General Specifications

<b>Address assignments / channel programming</b>	<p>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.</p> <p>If it is used with the BH8-CTRL-230, the channels have to be programmed by the BGP-COD-BAT</p>	<b>Weight</b>	338 g
<b>Environment</b> Degree of protection Operating temperature Storage temperature Humidity (non-condensing)	IP 67 -40° to +60°C (-40° to 140°F) -55° to +85°C (-67° to 185°F) 20 to 80 RH	<b>Approvals</b>	cULus according to UL60950
<b>Connection</b> Plug BSI-TEMANA-U Cable BSI-TEMANAB-U	M12 3 x 0.34 mm <sup>2</sup>	<b>CE Marking</b>	Yes
<b>Housing</b> Dimensions Housing material Plug material Color Mounting	Flat-pack 68.3 x 35 x 15 mm Polycarbonate Nylon Light grey Direct wall mounting  <b>Note:</b> To measure the air temperature, the sensor should not be wall-mounted, but it should be exposed to air flow.	<b>EMC</b>	Immunity - Electrostatic discharge - Radiated radiofrequency - Burst immunity - Surge - Conducted radio frequency - Power frequency magnetic fields - Voltage dips, variations, interruptions 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  Emission - Conducted and radiated emissions - Conducted emissions - Radiated emissions EN 61000-6-3 CISPR 22 (EN55022), cl. B  CISPR 16-2-1 (EN55016-2-1) CISPR 16-2-3 (EN55016-2-3)

## 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.

## Dimensions

