

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	BSI-TEMANA-U BSI-TEMANAB-U

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

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-

Note: All wires must be connected.



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	Weight	338 g
		Approvals	cULus according to UL60950
		CE Marking	Yes
		EMC	
		Immunity	EN 61000-6-2
		- Electrostatic discharge	EN 61000-4-2
		- Radiated radiofrequency	EN 61000-4-3
		- Burst immunity	EN 61000-4-4
		- Surge	EN 61000-4-5
		- Conducted radio frequency	EN 61000-4-6
		- Power frequency magnetic fields	EN 61000-4-8
		- Voltage dips, variations, interruptions	EN 61000-4-11
		Emission	EN 61000-6-3
		- Conducted and radiated emissions	CISPR 22 (EN55022), cl. B
		- Conducted emissions	CISPR 16-2-1 (EN55016-2-1)
		- Radiated emissions	CISPR 16-2-3 (EN55016-2-3)
Environment			
Degree of protection	IP 67		
Operating temperature	-40° to +60°C (-40° 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	M12	
Cable	BSI-TEMANAB-U	3 x 0.34 mm²	
Housing			
Dimensions	Flat-pack		
Housing material	68.3 x 35 x 15 mm		
Plug material	Polycarbonate		
Color	Nylon		
Mounting	Light grey		
	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.

Dimensions

