

# Smart Dupline® Water Detection Sensor Type BSF-WAT-U

CARLO GAVAZZI



- 2-channel transmitter
- Integrated water sensor input
- Water resistant PCB with screw terminals
- Easily mountable with unique mounting bracket
- Bus supplied
- External input for Felson moisture cable

## Product Description

The BSF-WAT-U is a water sensor developed to detect and react to even the smallest amounts of moisture and water before damage can occur.

It is part of the smart-house concept and it is designed to be used in the water alarm function supported by the smart-house controller.

## Ordering Key

**BSF WAT U**

Decentral module

Water detector

Smart Dupline®

## Type Selection

### Housing

70 x 39 x 15.5 mm

### Degree of protection

IP67

### Bus Supplied

BSF-WAT-U

## Input Specifications

### Input

Open loop voltage  
Trigger resistance

1 integrated water sensor in parallel with screw terminals for external sensor  
< 8.0 VDC  
150 – 470 KΩ

### Response time

≤ 156 ms @ 128 channels

## Dupline® Output Specifications

### Voltage

8.2 V

### Maximum Dupline® voltage

10 V

### Minimum Dupline® voltage

5.5 V

### Maximum Dupline® current

1.5 mA

## Supply Specifications

### Power supply

Bus supplied

## General Specifications

### Channel coding / Address assignment

If it is used with the SH2WEB24 the address assignment is automatic: the controller recognises the module through the SIN (Specific Identification Number) that has to be inserted in the SH tool. If it used with the BH8-CTRL-230, the channels have to be programmed by the BGP-COD-BAT

### Environment

Degree of protection  
Operating temperature  
Storage temperature  
Humidity (non condensing)

IP 67  
-20° to +50°C (-4° to +122°F)  
-50° to +85°C (-58° to + 185°F)  
20 to 80%

### Mechanical resistance

Shock  
Vibration

15 G (11 ms)  
2 G (6 to 55 Hz)

### Connection

Screw terminals  
D+  
D-

0.2 to 1.5 mm<sup>2</sup>  
Signal  
GND

## General Specifications

<b>Housing</b>	
Dimensions	70 x 39 x 15.5 mm
Material	ABS
Colour	White
<b>CE Marking</b>	Yes
<b>EMC</b>	
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)

## Mode of Operation

The BSF-WAT-U is fully programmable via the SH tool: the water sensor input can be associated to one or more water alarm functions supported by the smart-house system.

### BSF-WAT-U connected to the SH2WEB24

**Coding/Addressing**  
If the water detector module is connected to the SH2WEB24 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 SH tool when creating the system configuration.  
Used channels: 2 input channels.

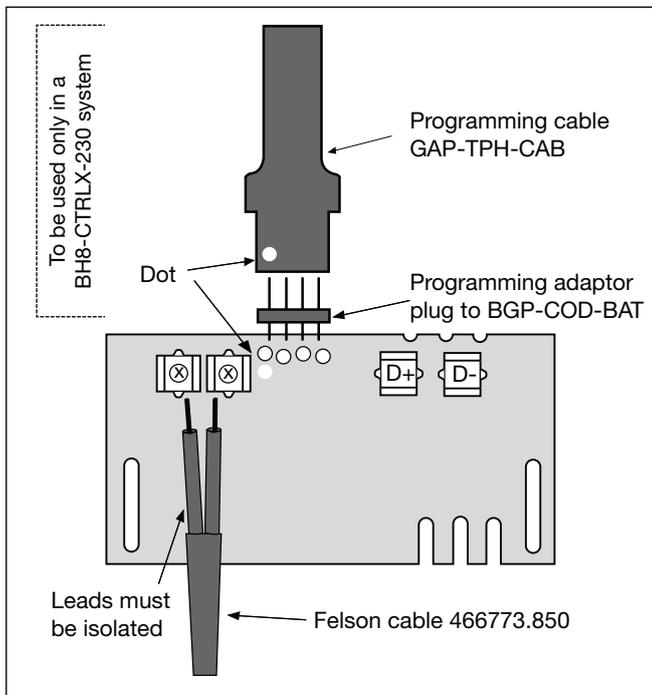
### BSF-WAT-U connected to the BH8-CTRLX-230

**Coding/Addressing**  
If the water detection module is connected to the BH8-CTRLX-230 controller, the user has to program the Dupline channels using the BGP-COD-BAT: this module has one input for the water sensor and one output channel.

**I/O number 1:** Water detection Pre-programmed to address N3.

**I/O number 2:** always ON (only where using waterstop) Not programmed.

## Wiring Diagram



## Dimensions

